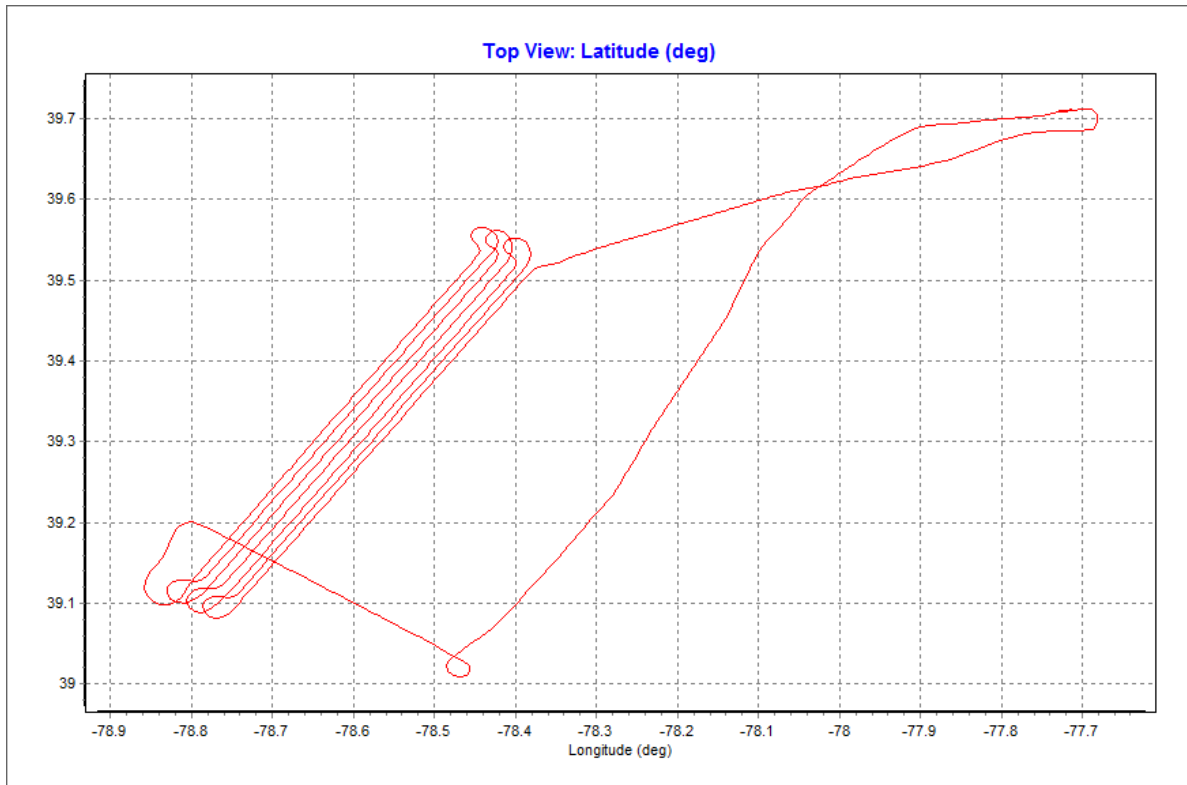
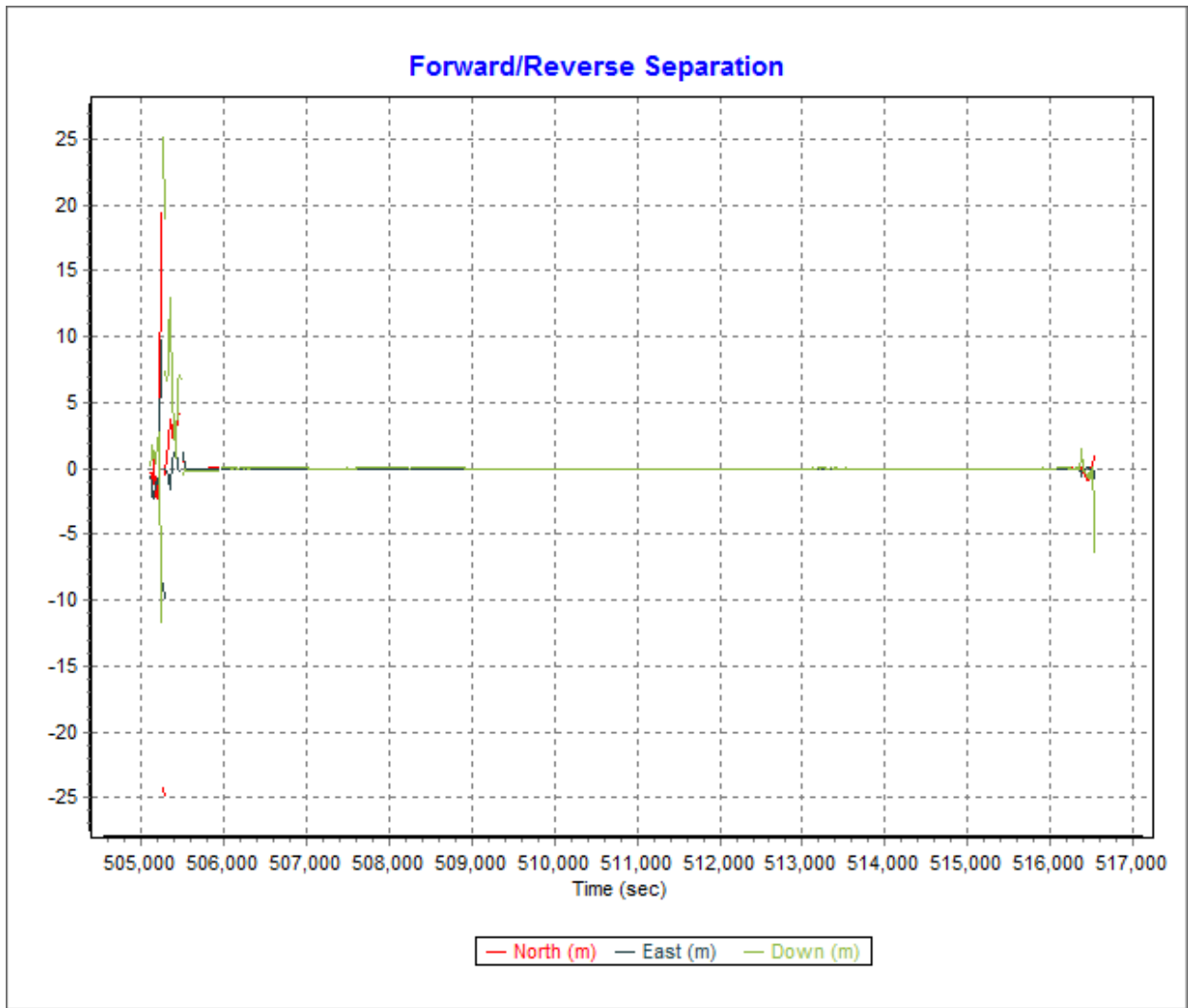
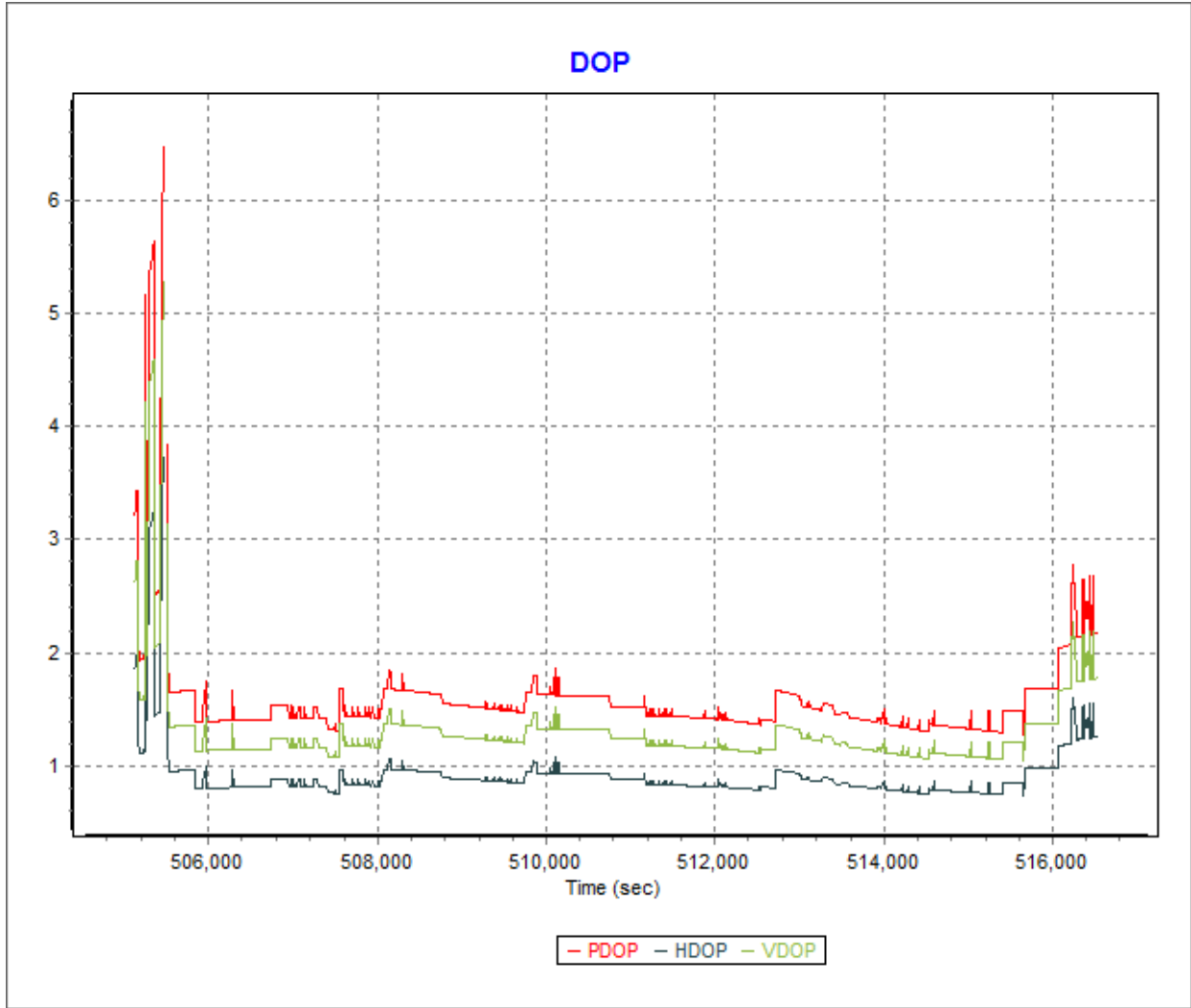
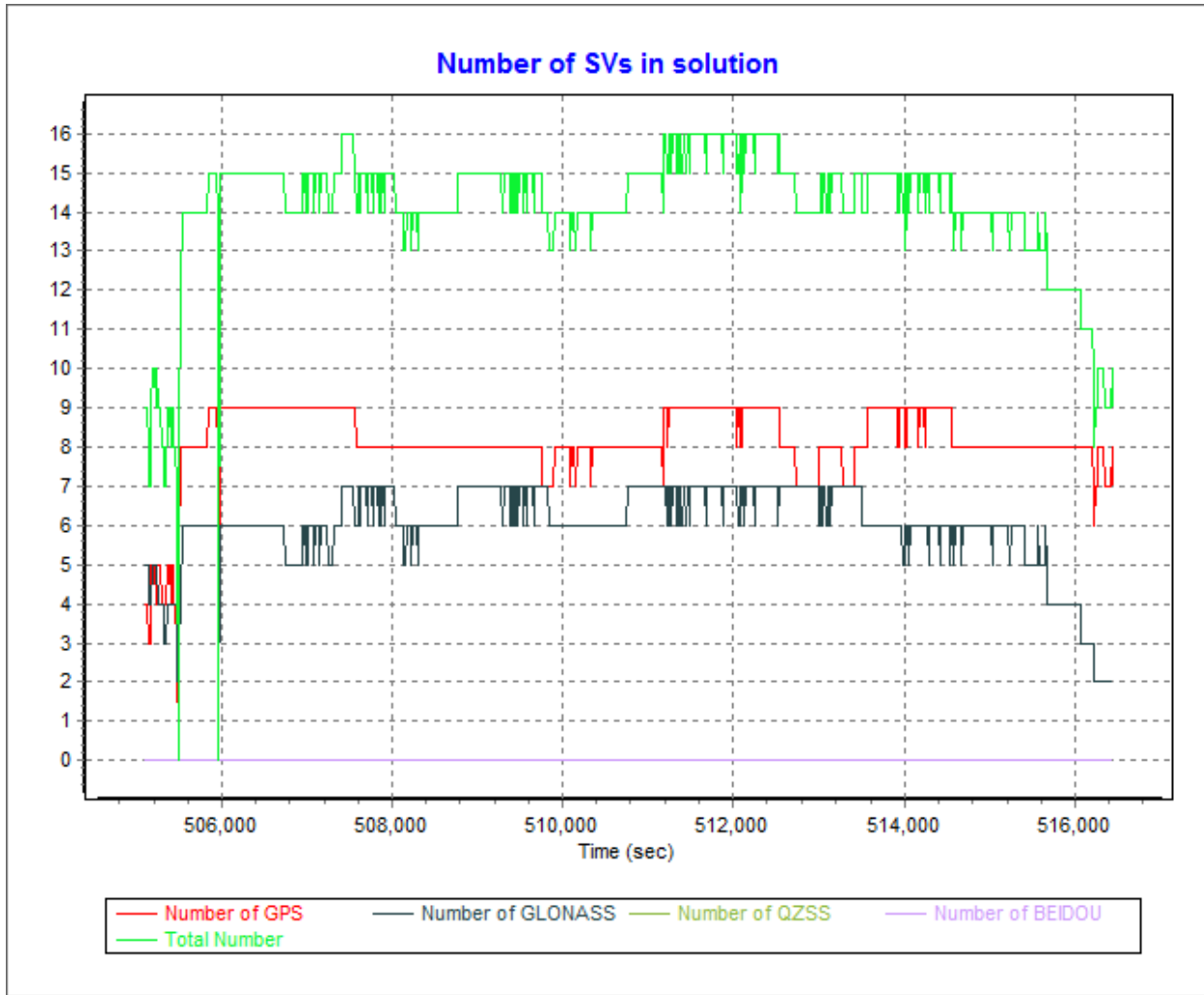


## Appendix D: GPS and IMU Processing Reports for Each Mission of the West Virginia North East Project









### Processing Summary Information

Program: POSPac MMS  
Version: 7.2.5934.15637  
Project: \\sa\data\riegl\216027\20161104\_WV\_B

Solution Type: IN-Fusion SmartBase

Fixed: 10983 (96.64%)  
Float: 370 (3.26%)  
No Solution: 12 (0.11%)

Number of Epochs:

Total in RAW file: 11454  
No processed position: 89

Fwd/Rev Separation RMS Values (m):

East: 0.665  
North: 1.466  
Height: 1.437

Fwd/Rev Sep. RMS for 25%-75% weighting (m): 5727 occurrences

East: 0.003  
North: 0.003  
Height: 0.021

Position Standard Deviation Percentages (%):

0.00 - 0.10 m: 0.000  
0.10 - 0.30 m: 0.000  
0.30 - 1.00 m: 65.121  
1.00 - 5.00 m: 34.881  
5.00 m + over: 0.000

Percentages of epochs with DD\_DOP over 10.00: 0 %

DOP over Tol: 1.60 %

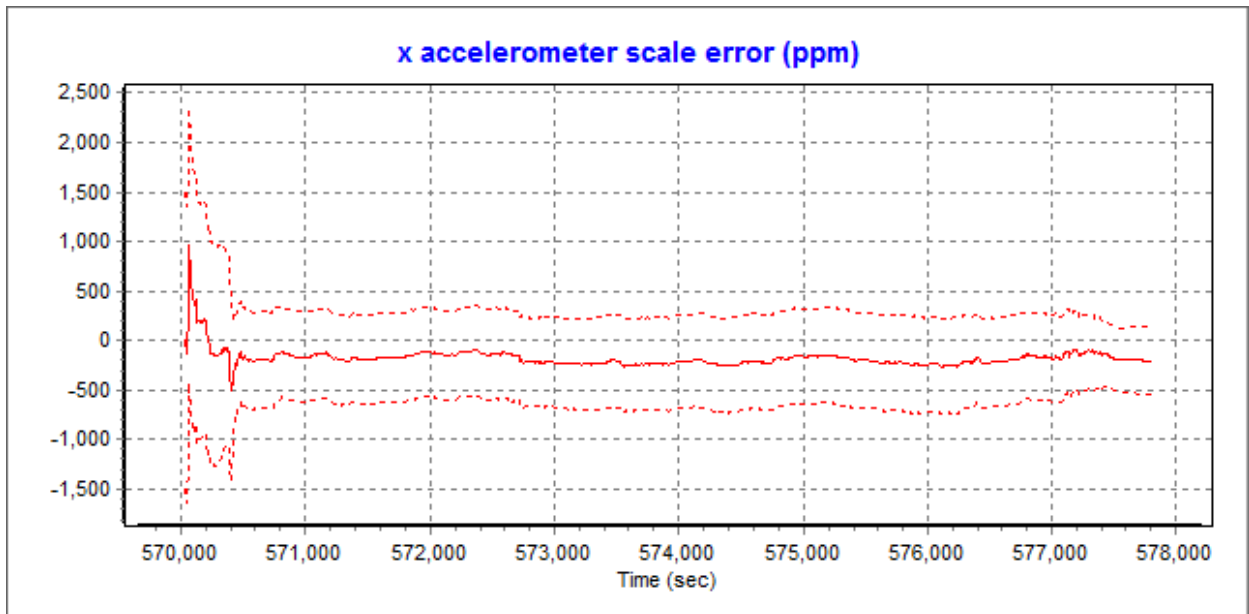
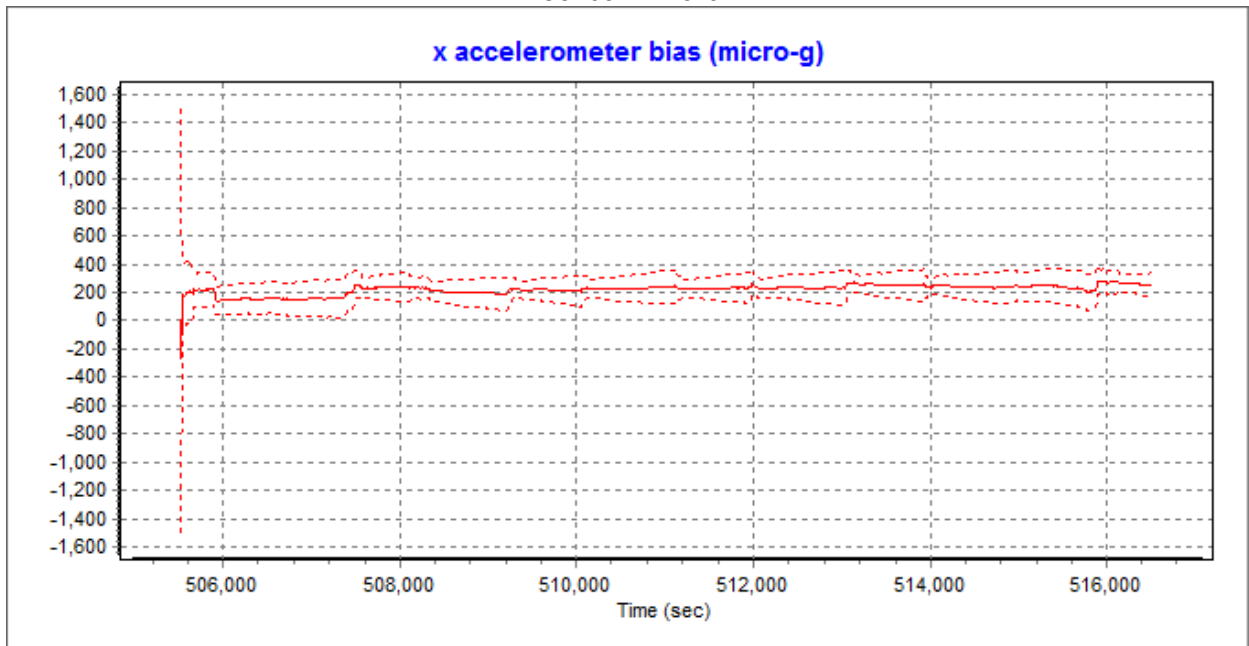
Baseline Distances (km):

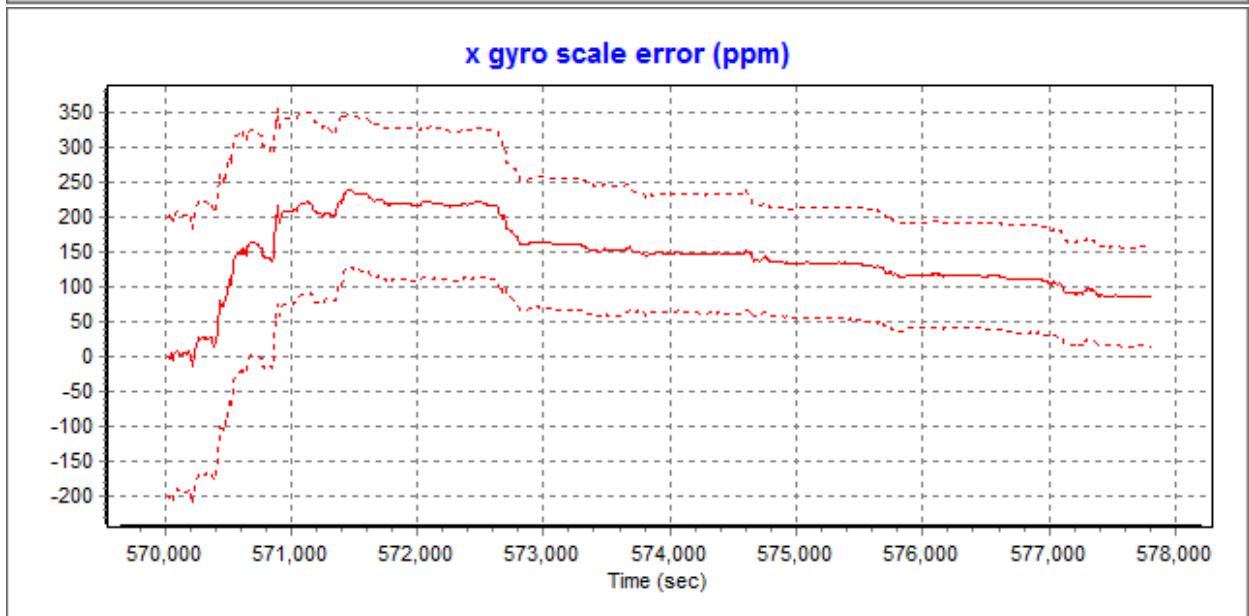
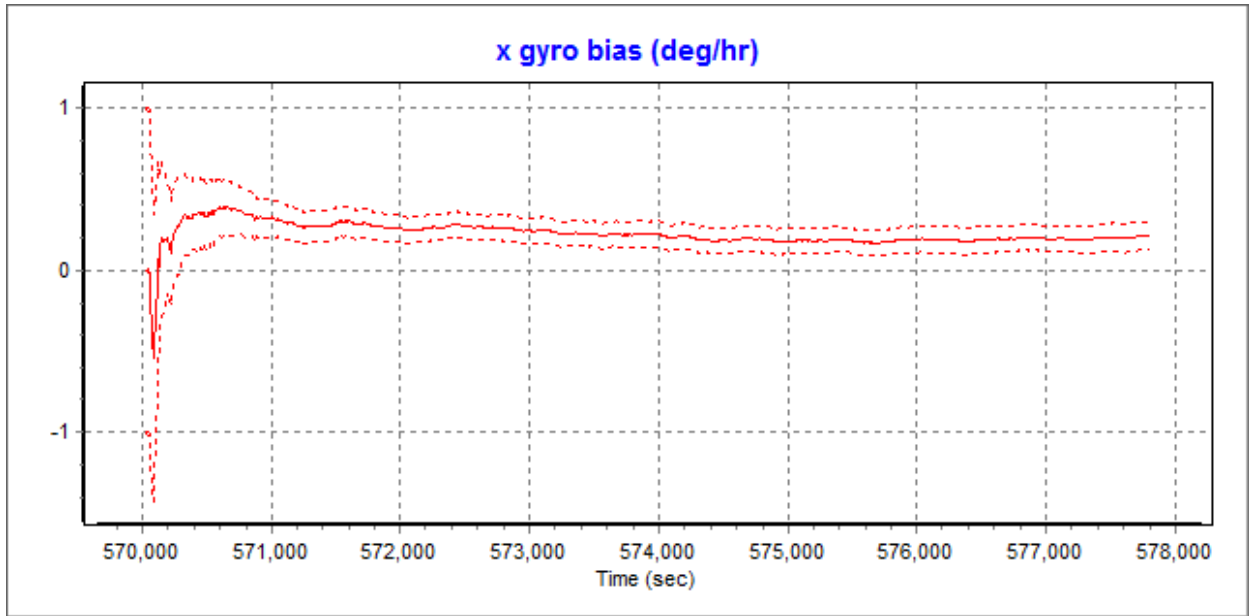
Maximum: 69.89  
Minimum: 7.72  
Average: 33.60  
First Epoch: 65.75  
Last Epoch: 65.75

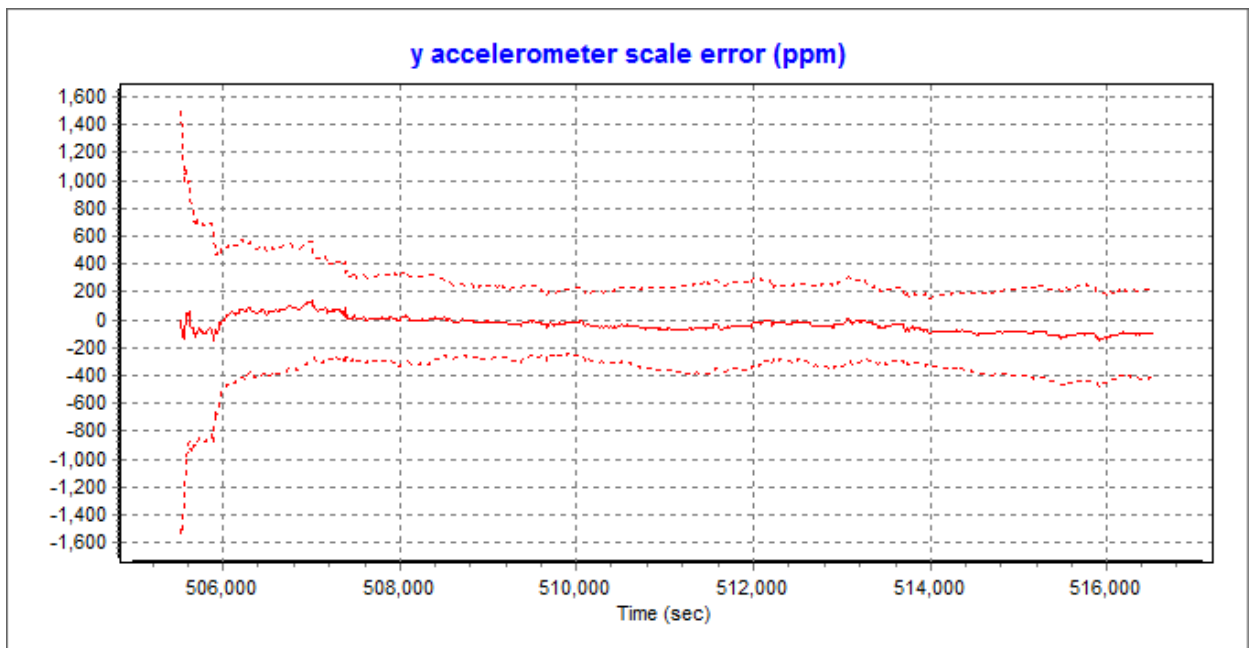
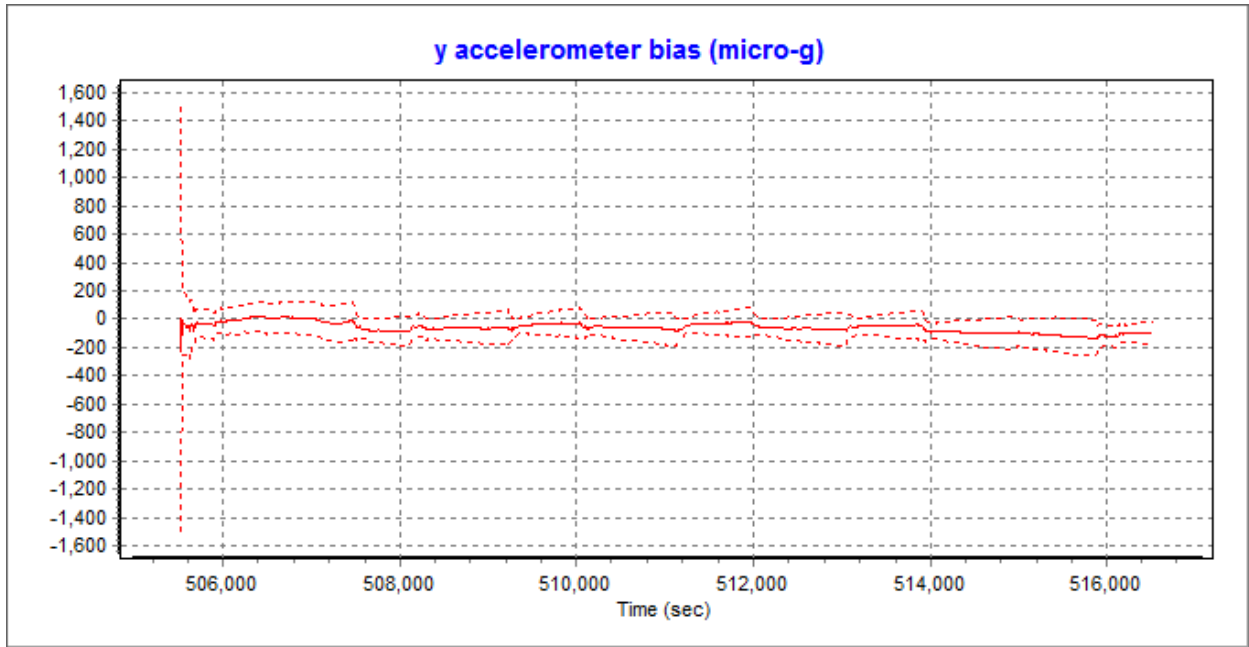
**CORS Base Stations**

Station	Original			Adjusted		
	Latitude	Longitude	Altitude	Latitude	Longitude	Altitude
WVBU	N39°20'16.85145"	W78°54'48.61118"	198.793	N39°20'16.85145"	W78°54'48.61118"	198.793
ZDC1	N39°06'05.74451"	W77°32'33.88932"	79.596	N39°06'05.74476"	W77°32'33.88997"	79.616
WVMF	N39°04'32.37373"	W78°55'57.02159"	312.272	N39°04'32.37401"	W78°55'57.02222"	312.283
WVCV	N39°00'55.10519"	W79°27'25.03346"	967.96	N39°00'55.10471"	W79°27'25.03316"	967.965
PAFC	N39°56'49.44385"	W77°40'11.19016"	175.871	N39°56'49.44393"	W77°40'11.19051"	175.885
LWX1	N38°58'21.66394"	W77°29'18.98431"	60.728	N38°58'21.66404"	W77°29'18.98528"	60.75
LOYY	N38°53'18.57661"	W78°29'56.96629"	220.904	N38°53'18.57688"	W78°29'56.96693"	220.928
LOYS	N39°38'46.42051"	W78°43'47.92090"	168.093	N39°38'46.42080"	W78°43'47.92117"	168.086
LOYQ	N39°38'02.62363"	W77°42'51.12034"	127.23	N39°38'02.62403"	W77°42'51.12094"	127.216
LOYJ	N38°28'20.92222"	W78°00'36.16886"	103.853	N38°28'20.92243"	W78°00'36.16916"	103.862
LOYC	N39°07'12.57573"	W78°12'02.63164"	201.807	N39°07'12.57577"	W78°12'02.63248"	201.852
LOYA	N38°25'33.92918"	W78°53'21.79748"	363.919	N38°25'33.92930"	W78°53'21.79797"	363.978
ALLG	N39°39'13.91860"	W78°43'50.52686"	174.48	N39°39'13.91882"	W78°43'50.52718"	174.508

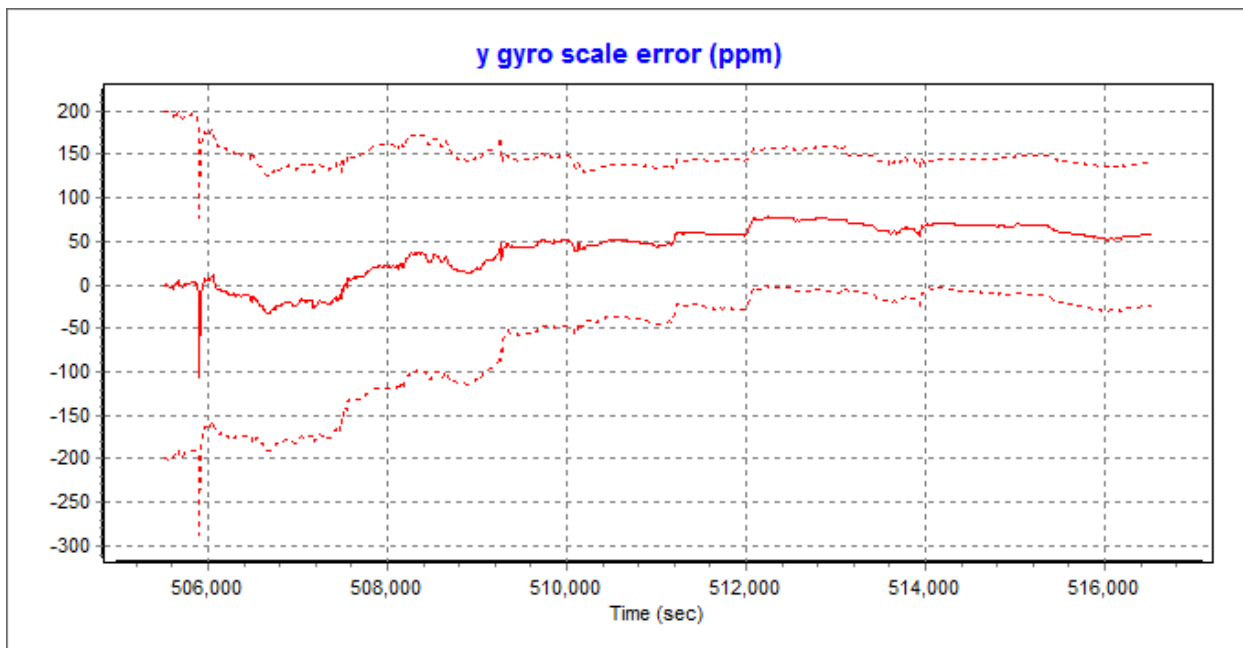
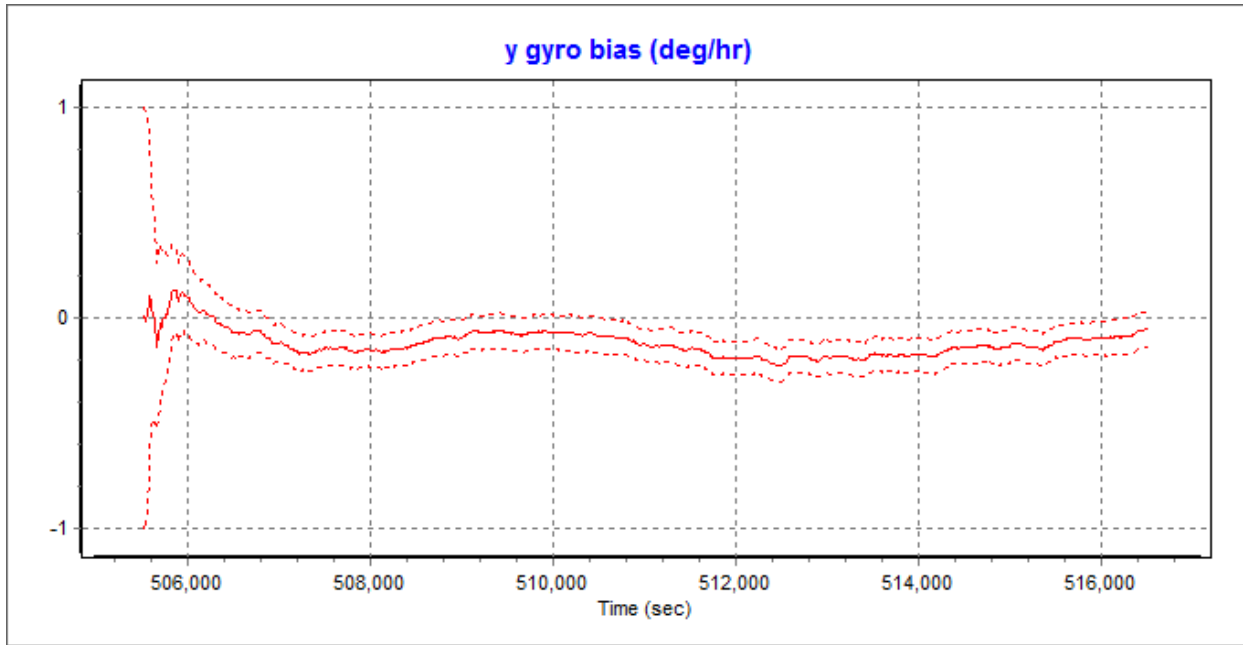
### Sensor Errors

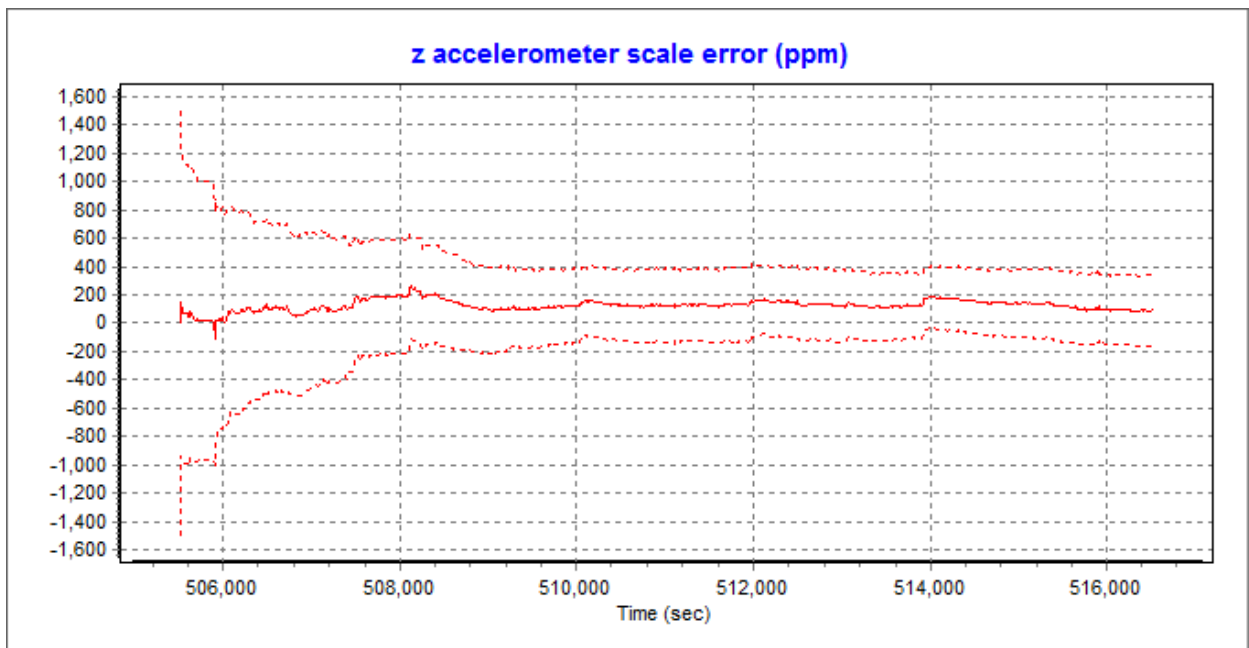
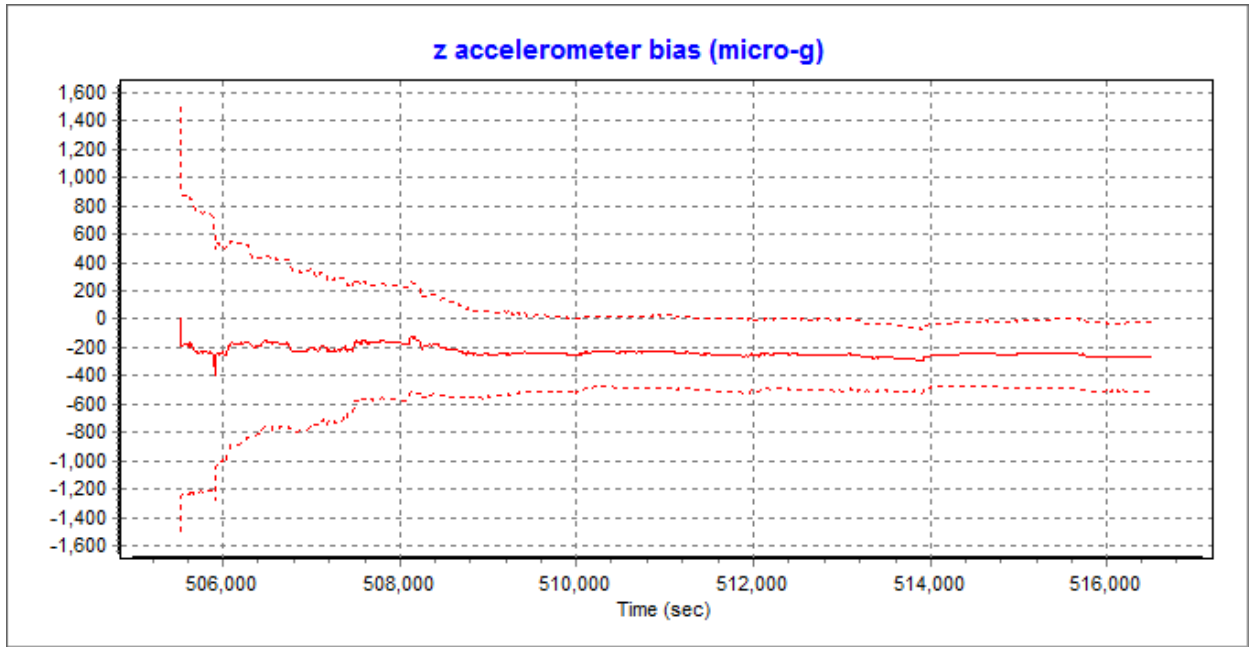


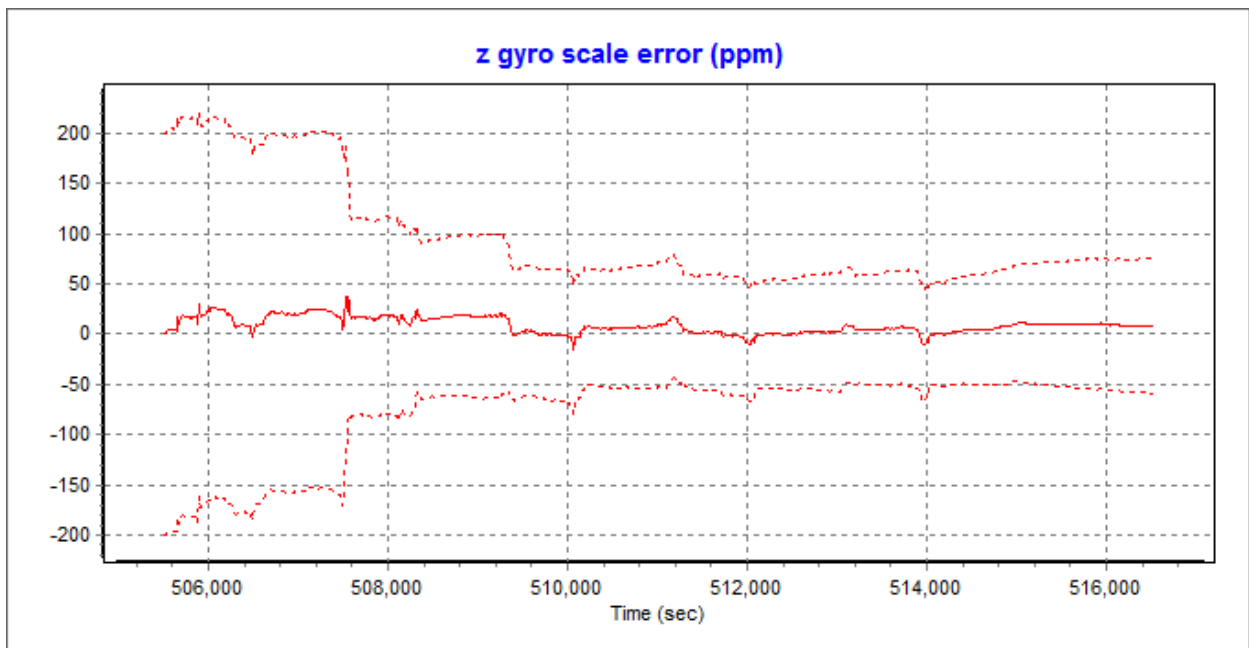
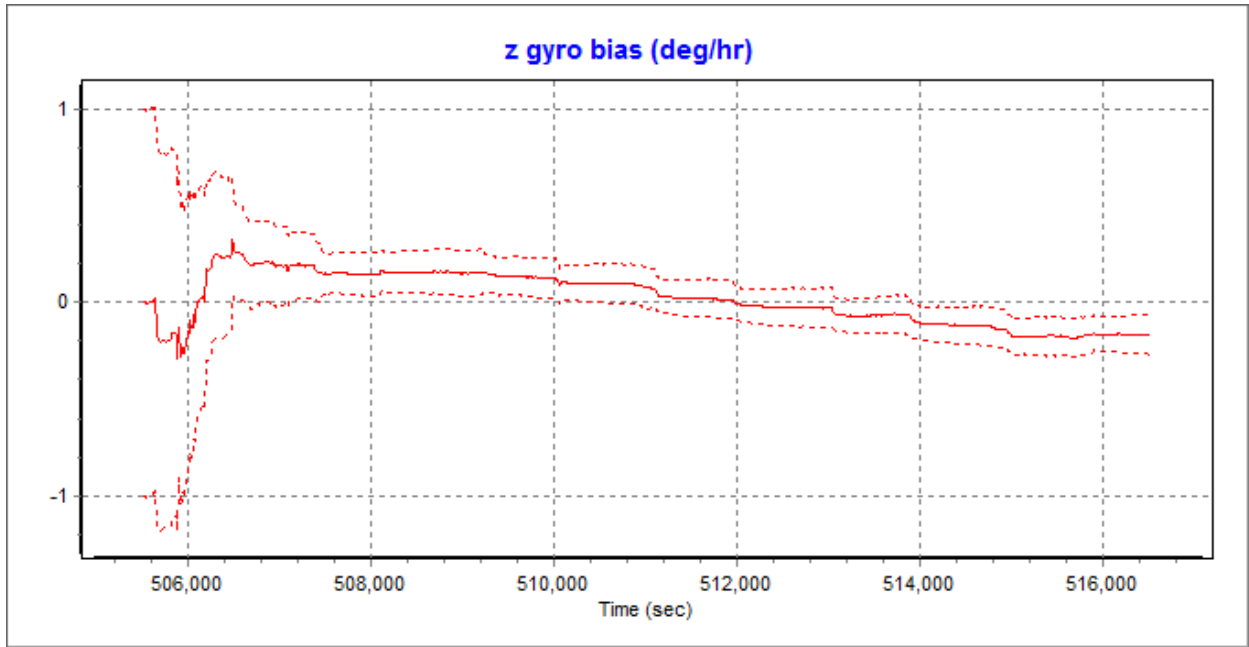


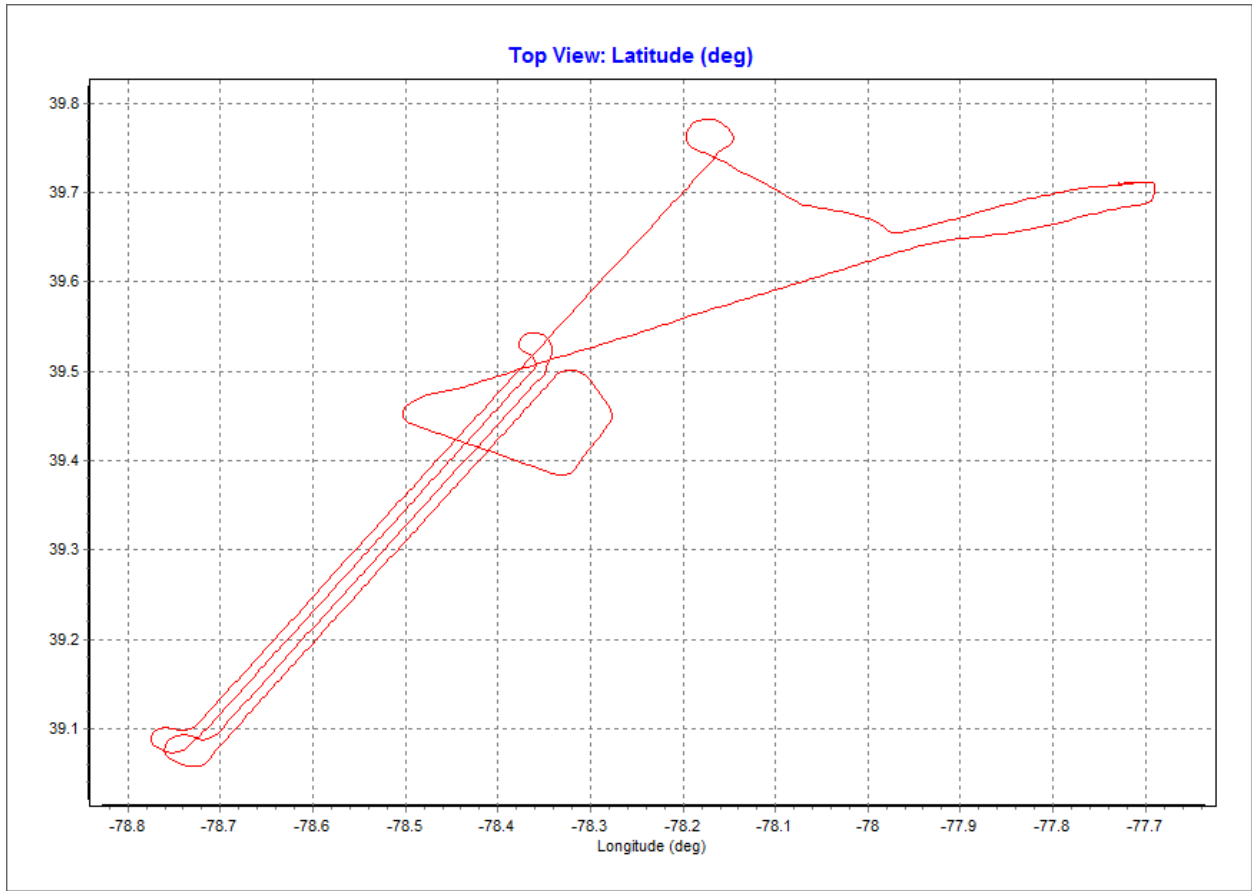


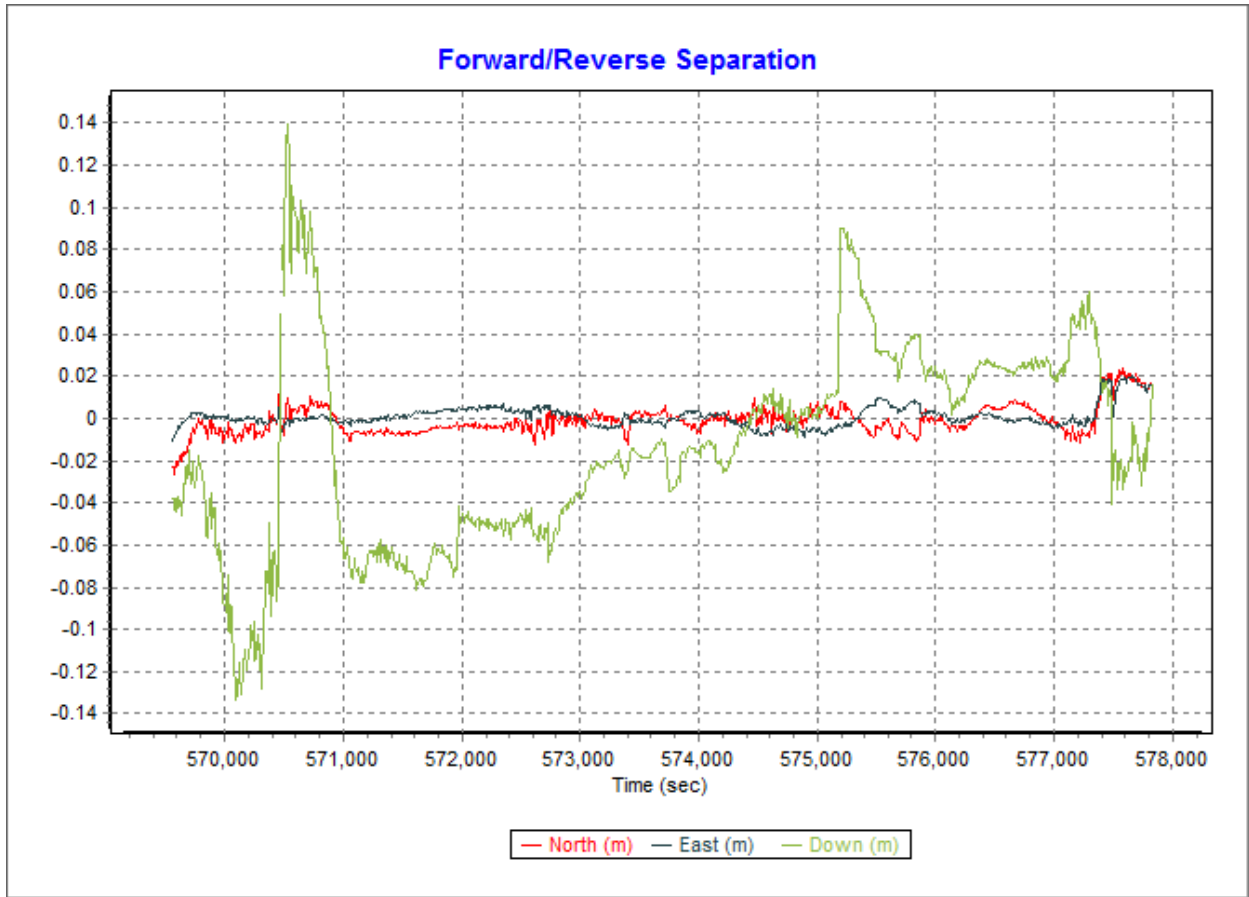


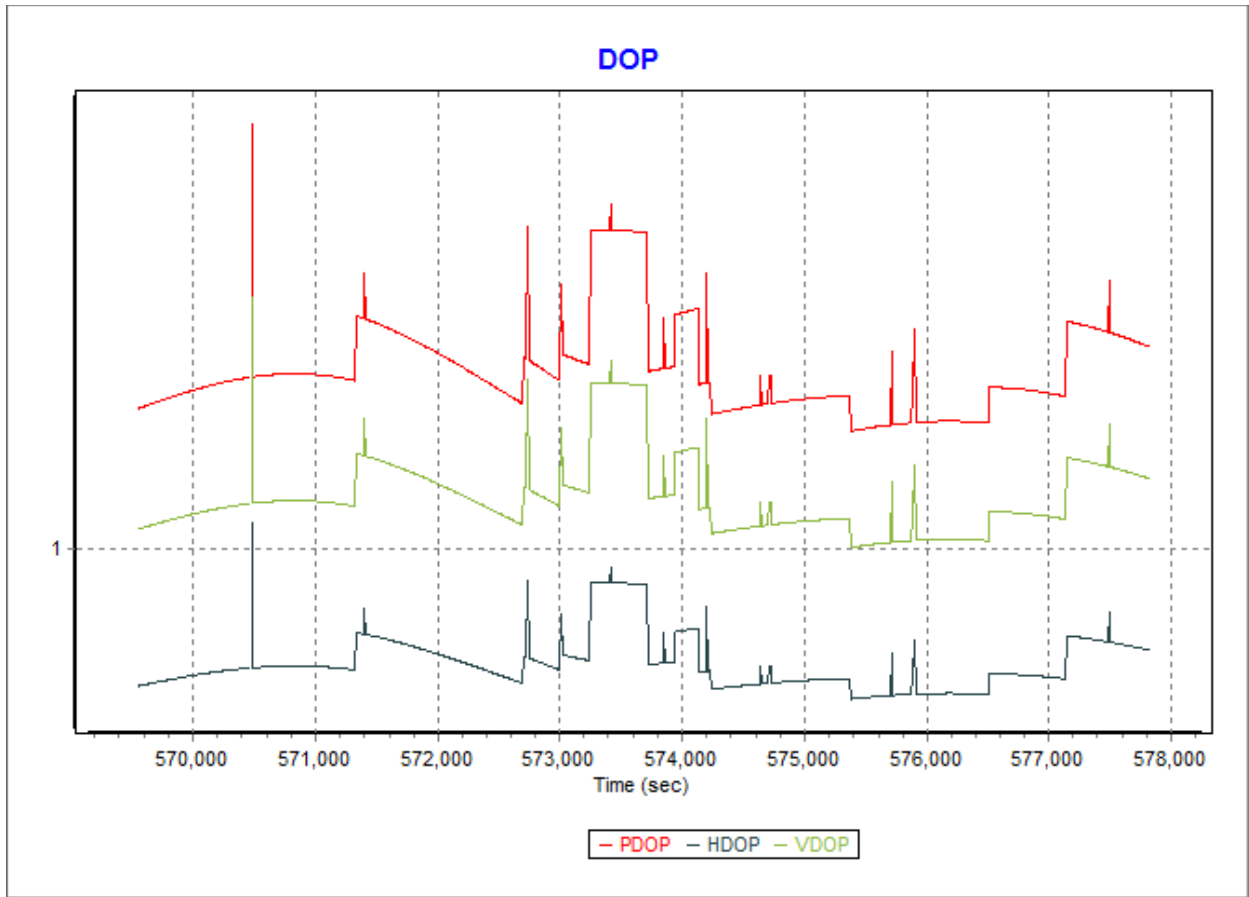


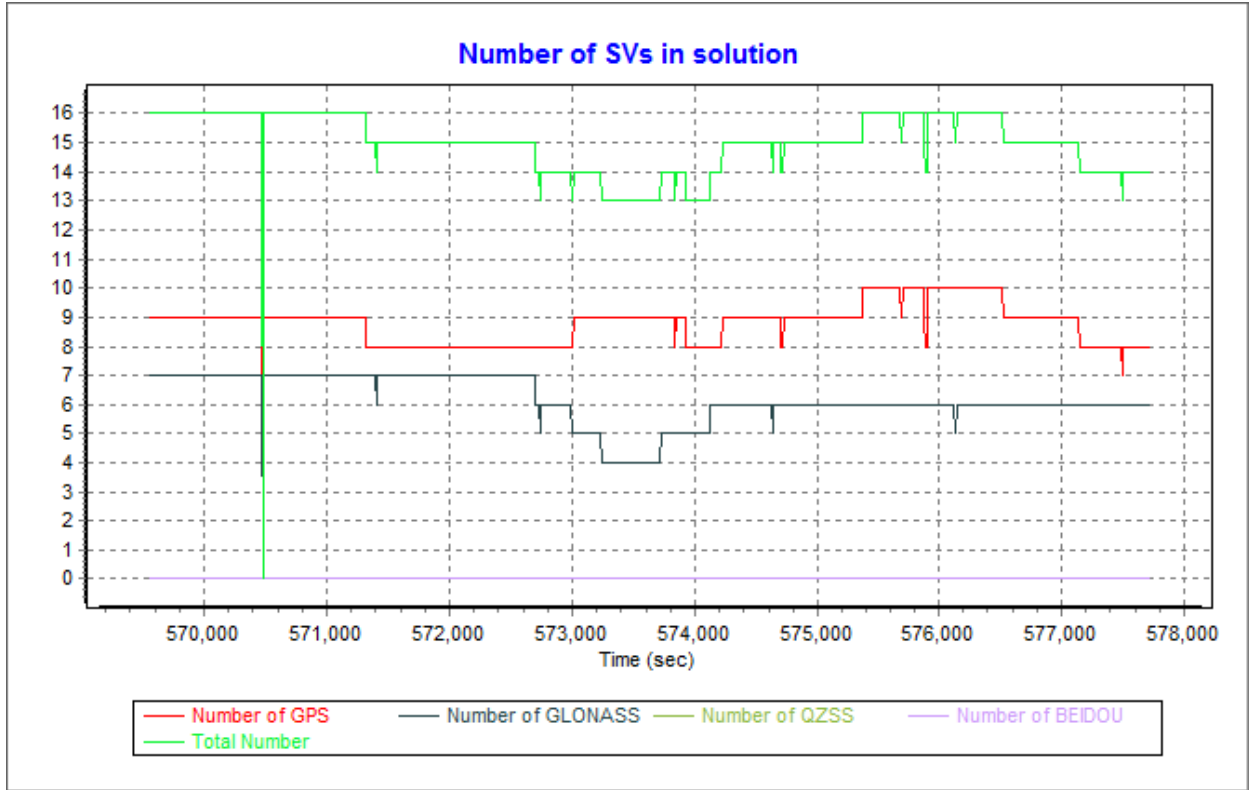












### Processing Summary Information

Program: POSPac MMS  
Version: 7.2.5934.15637  
Project: \\sa\data\216027\20161105\_WV\_A

Solution Type: IN-Fusion SmartBase

Fixed: 8190 (99.99%)  
Float: 0 (0.0%)  
No Solution: 1 (0.01%)

Number of Epochs:

Total in RAW file: 8293  
No processed position: 102

Fwd/Rev Separation RMS Values (m):

East: 0.005  
North: 0.007  
Height: 0.049

Fwd/Rev Sep. RMS for 25%-75% weighting (m): 4145  
East: 0.004  
North: 0.004  
Height: 0.040

Position Standard Deviation Percentages:

0.00 - 0.10 m: 100.0 %  
0.10 - 0.30 m: 0.0 %  
0.30 - 1.00 m: 0.0 %  
1.00 - 5.00 m: 0.0 %  
5.00 m + over: 0.0 %

Percentages of epochs with DD\_DOP over 10.00: 0 %

DOP over Tol: 1.35 %

Baseline Distances (km)

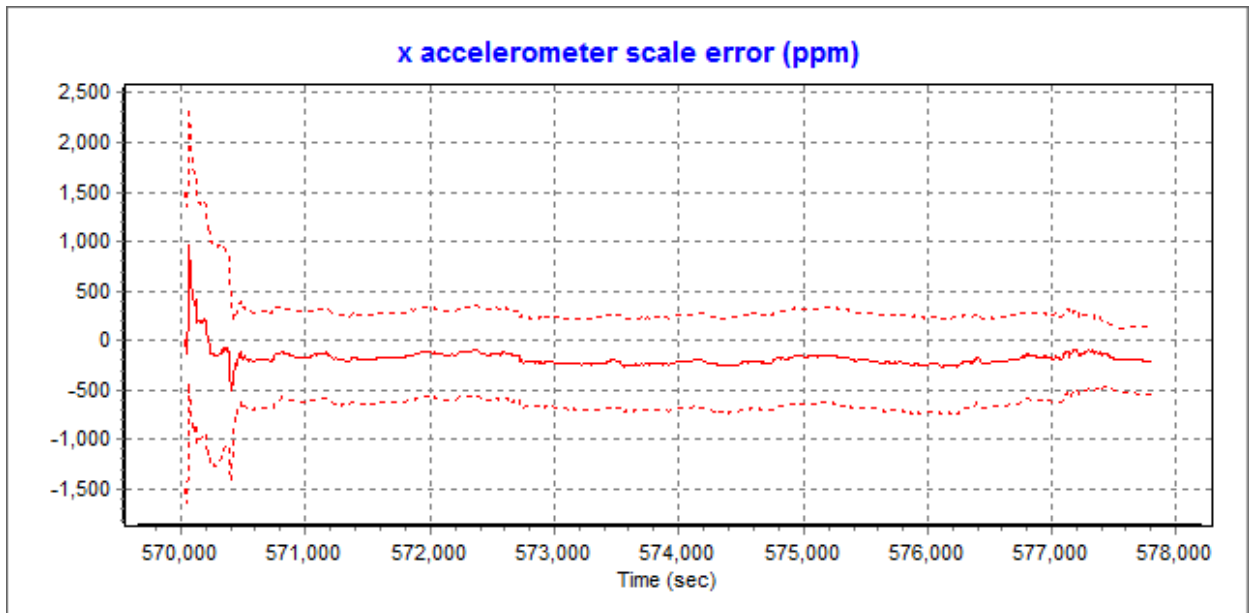
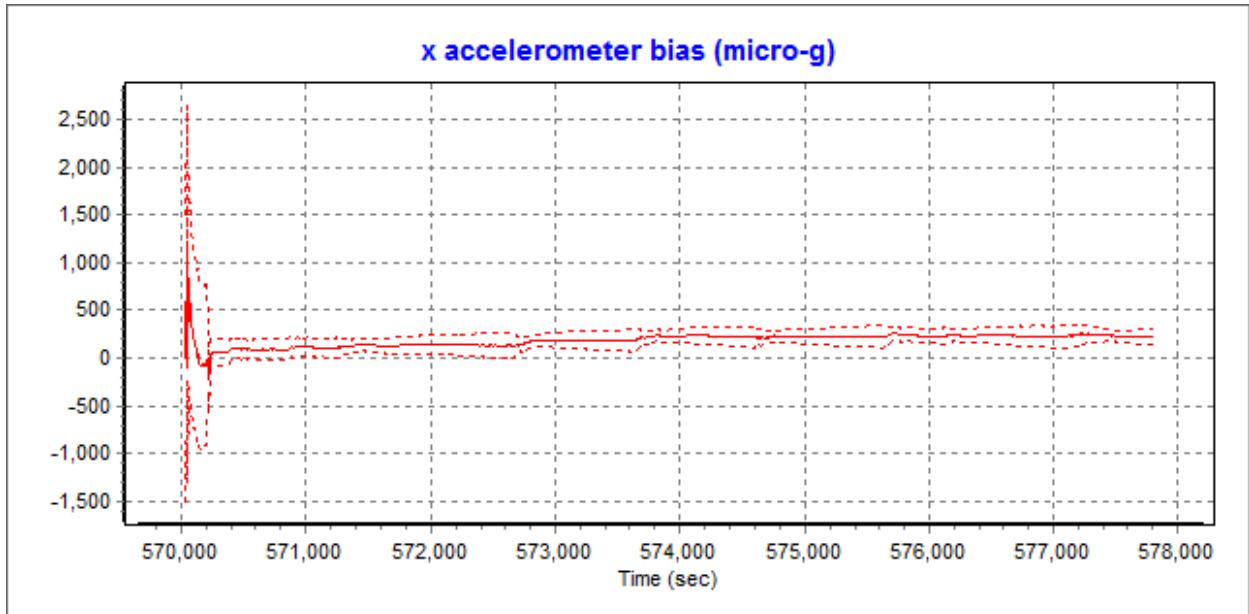
Maximum: 63.40  
Minimum: 3.46  
Average: 33.55  
First Epoch: 51.41  
Last Epoch: 51.37

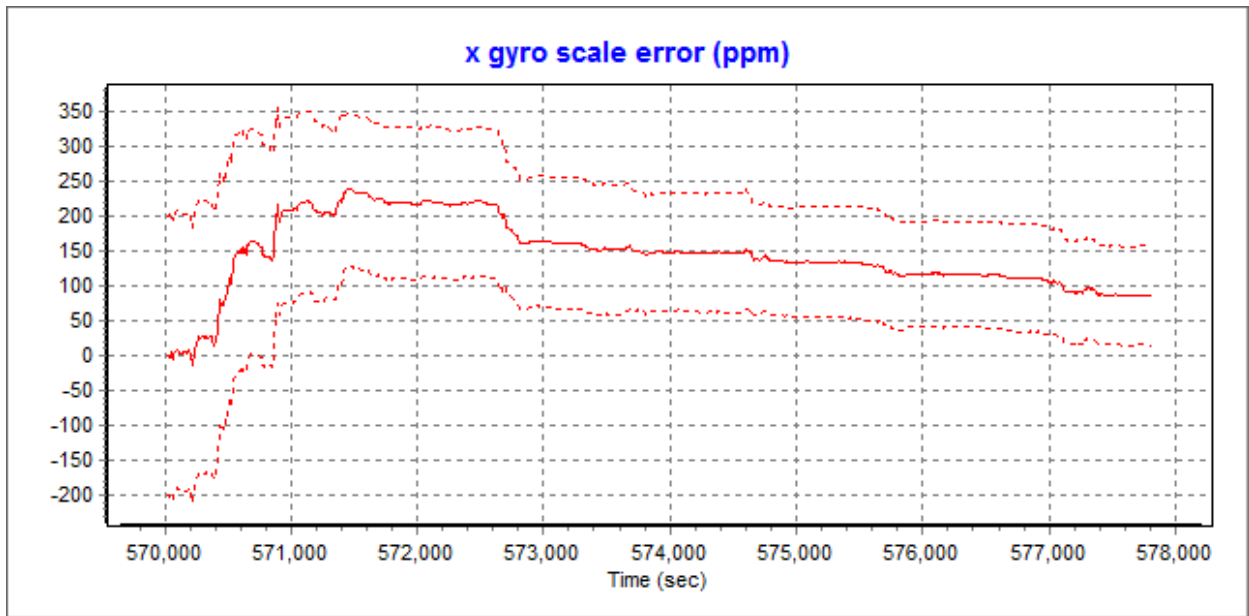
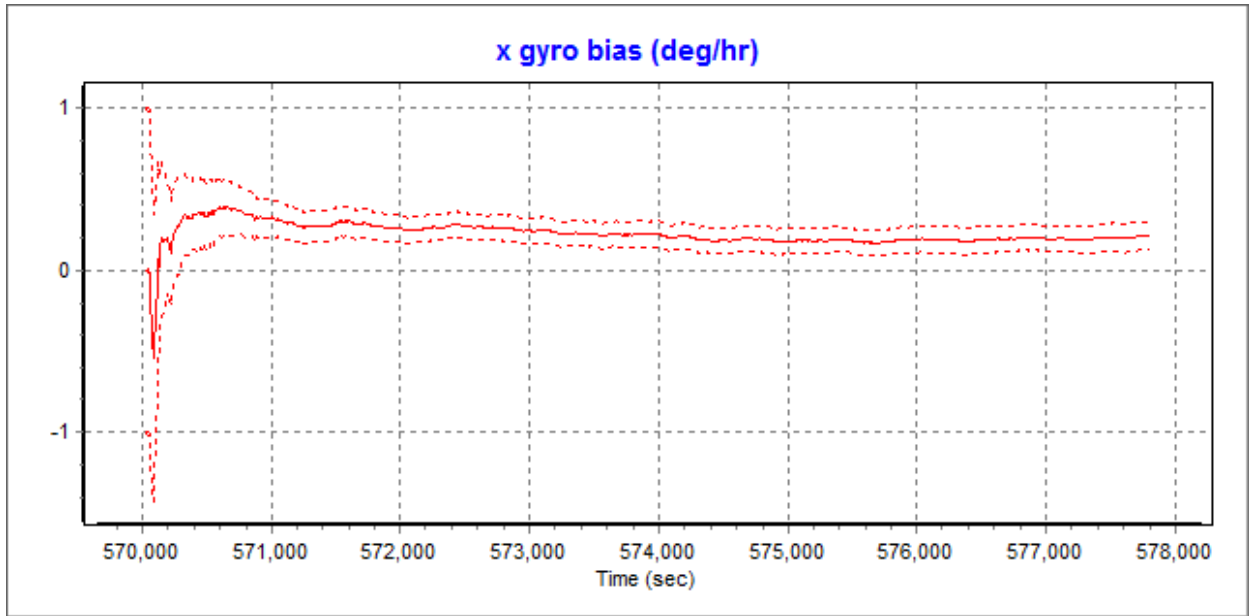


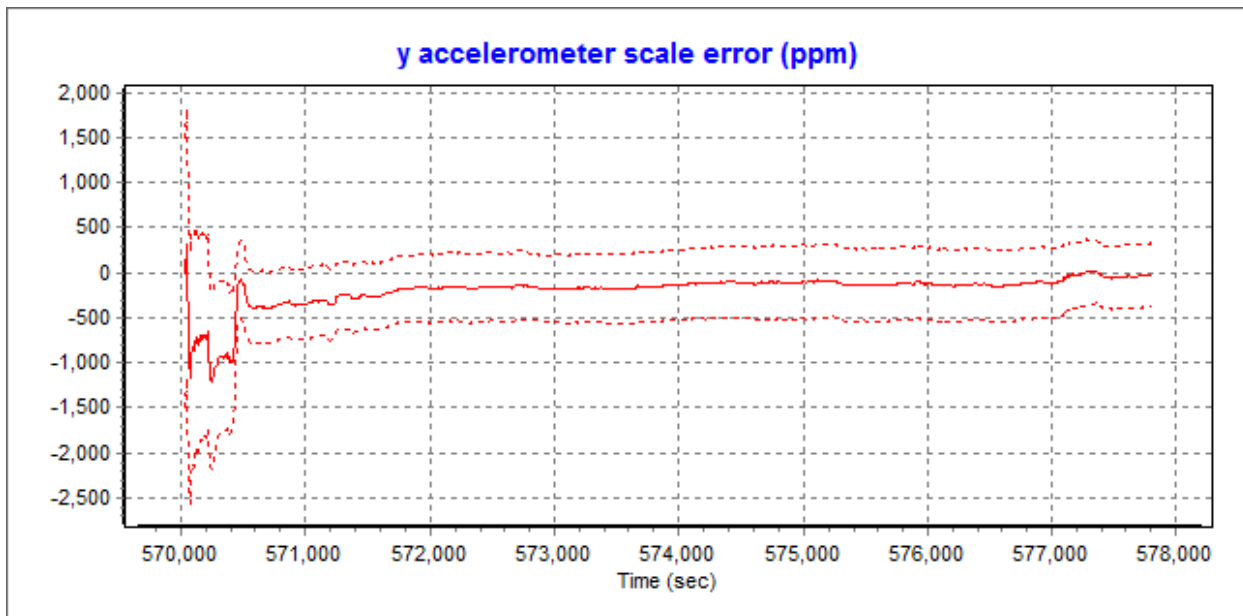
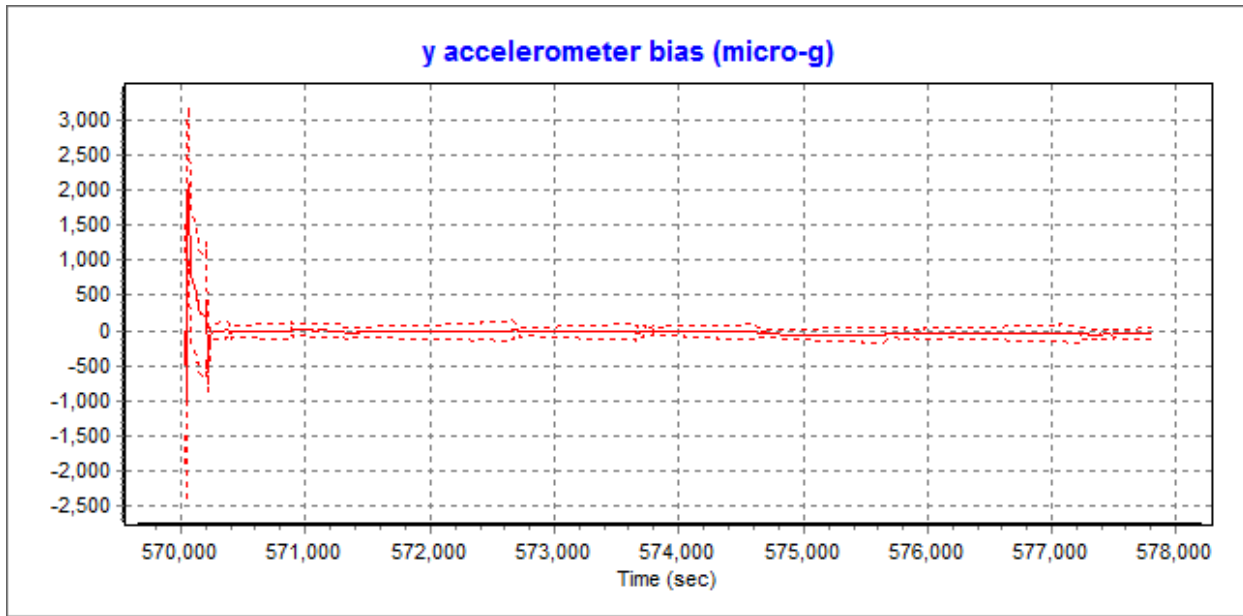
**CORS Base Stations**

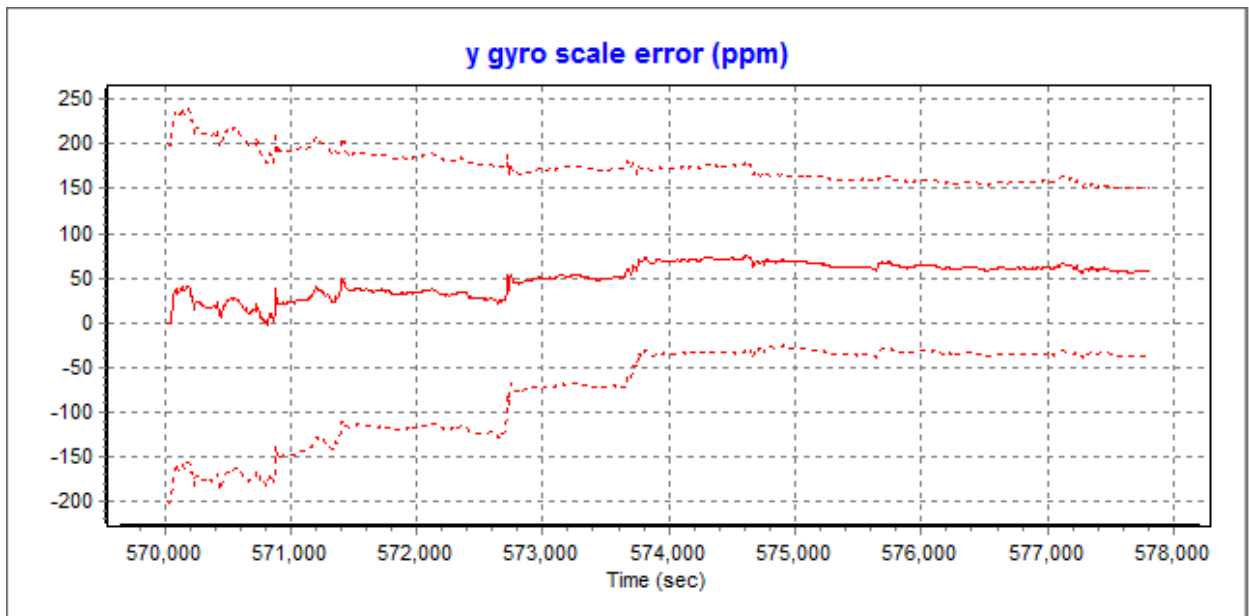
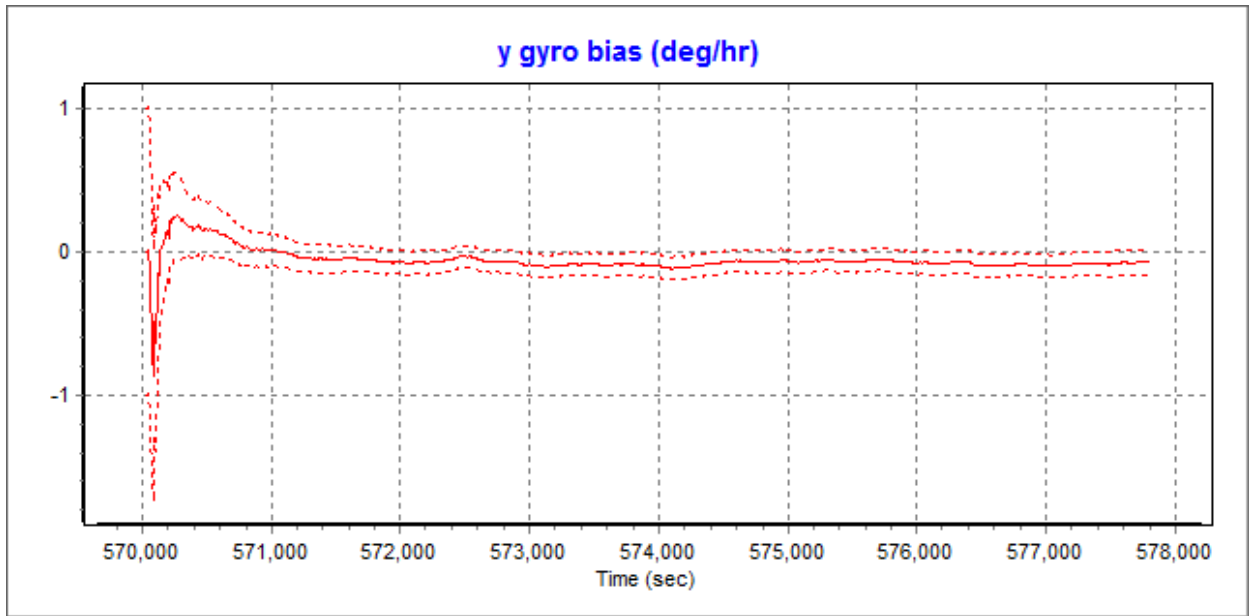
Station	Original			Adjusted		
	Latitude	Longitude	Altitude	Latitude	Longitude	Altitude
ZDC1	N39°06'05.74451"	W77°32'33.88932"	79.596	N39°06'05.74475"	W77°32'33.88904"	79.576
YORK	N39°59'13.30764"	W76°44'24.55867"	98.34	N39°59'13.30779"	W76°44'24.55864"	98.326
WVNR	N38°53'44.53445"	W79°51'30.29433"	581.501	N38°53'44.53462"	W79°51'30.29414"	581.468
WVMF	N39°04'32.37373"	W78°55'57.02159"	312.272	N39°04'32.37401"	W78°55'57.02131"	312.245
WVGB	N38°25'48.45398"	W79°49'01.31917"	811.181	N38°25'48.45388"	W79°49'01.31916"	811.148
WVCV	N39°00'55.10519"	W79°27'25.03346"	967.96	N39°00'55.10477"	W79°27'25.03242"	967.931
WVBU	N39°20'16.85129"	W78°54'48.61063"	198.787	N39°20'16.85147"	W78°54'48.61047"	198.755
WVBR	N39°18'28.91342"	W80°16'38.64393"	268.986	N39°18'28.91355"	W80°16'38.64394"	268.964
VA01	N38°01'13.99971"	W78°00'53.07980"	111.259	N38°01'13.99949"	W78°00'53.08271"	111.372
UVFM	N37°52'43.49369"	W78°41'37.27096"	512.941	N37°52'43.49375"	W78°41'37.27073"	512.914
UMBC	N39°15'24.39096"	W76°42'41.48919"	64.652	N39°15'24.39135"	W76°42'41.48922"	64.616
PSU1	N40°48'24.84181"	W77°50'59.29118"	311.189	N40°48'24.84191"	W77°50'59.29090"	311.154
PAWG	N40°18'19.27228"	W79°30'22.40231"	334.927	N40°18'19.27241"	W79°30'22.40228"	334.903
PAJP	N40°56'44.68530"	W78°57'03.39483"	379.265	N40°56'44.68565"	W78°57'03.39458"	379.231
PAII	N40°36'20.27853"	W79°11'09.35327"	377.906	N40°36'20.27874"	W79°11'09.35332"	377.876
PAGW	N39°53'56.14859"	W80°09'36.40311"	262.754	N39°53'56.14800"	W80°09'36.40202"	262.724
PAFU	N39°55'35.71864"	W79°41'50.53507"	326.747	N39°55'35.71879"	W79°41'50.53502"	326.729
PAFM	N39°57'44.94246"	W77°58'43.64064"	285.509	N39°57'44.94263"	W77°58'43.64063"	285.471
PAFC	N39°56'49.44385"	W77°40'11.19016"	175.871	N39°56'49.44386"	W77°40'11.18995"	175.841
PAAP	N40°26'40.28545"	W79°57'32.15470"	312.509	N40°26'40.28573"	W79°57'32.15498"	312.481
LWX1	N38°58'21.66394"	W77°29'18.98431"	60.728	N38°58'21.66411"	W77°29'18.98441"	60.707
LOYY	N38°53'18.57661"	W78°29'56.96629"	220.904	N38°53'18.57692"	W78°29'56.96617"	220.878
LOYS	N39°38'46.42051"	W78°43'47.92090"	168.093	N39°38'46.42081"	W78°43'47.92100"	168.046
LOYR	N39°34'08.75790"	W75°59'15.01506"	-16.024	N39°34'08.75809"	W75°59'15.01498"	-16.058
LOYQ	N39°38'02.62363"	W77°42'51.12034"	127.23	N39°38'02.62409"	W77°42'51.12030"	127.173
LOYP	N38°01'13.85597"	W79°01'07.26278"	392.062	N38°01'13.85604"	W79°01'07.26253"	392.06
LOYO	N38°03'00.65558"	W77°20'51.19426"	41.868	N38°03'00.65559"	W77°20'51.19469"	41.832
LOYM	N38°18'38.14863"	W76°37'57.99420"	4.792	N38°18'38.14890"	W76°37'57.99391"	4.737
LOYK	N39°07'51.88861"	W76°47'26.28029"	34.002	N39°07'51.88879"	W76°47'26.27999"	33.967
LOYJ	N38°28'20.92222"	W78°00'36.16886"	103.853	N38°28'20.92251"	W78°00'36.16842"	103.821
LOYI	N38°01'59.45425"	W78°30'42.43141"	154.965	N38°01'59.45439"	W78°30'42.43127"	154.925
LOYF	N38°58'28.10438"	W76°31'19.90567"	-15.795	N38°58'28.10460"	W76°31'19.90556"	-15.841
LOYC	N39°07'12.57573"	W78°12'02.63164"	201.807	N39°07'12.57573"	W78°12'02.63164"	201.807
LOYB	N38°43'42.05157"	W77°11'02.31940"	-2.857	N38°43'42.05184"	W77°11'02.31902"	-2.91
LOYA	N38°25'33.92918"	W78°53'21.79748"	363.919	N38°25'33.92936"	W78°53'21.79739"	363.932
LOY8	N38°16'58.72082"	W77°27'09.48952"	-6.206	N38°16'58.72108"	W77°27'09.48957"	-6.241
GODZ	N39°01'18.21995"	W76°49'36.59575"	14.484	N39°01'18.22006"	W76°49'36.59530"	14.462
GODE	N39°01'18.21999"	W76°49'36.59577"	14.482	N39°01'18.22005"	W76°49'36.59532"	14.461
CORB	N38°12'07.85729"	W77°22'24.59135"	35.915	N38°12'07.85743"	W77°22'24.59106"	35.91
BACO	N39°23'58.06775"	W76°36'24.46406"	127.001	N39°23'58.06812"	W76°36'24.46378"	126.995
ALLG	N39°39'13.91860"	W78°43'50.52686"	174.48	N39°39'13.91881"	W78°43'50.52686"	174.47

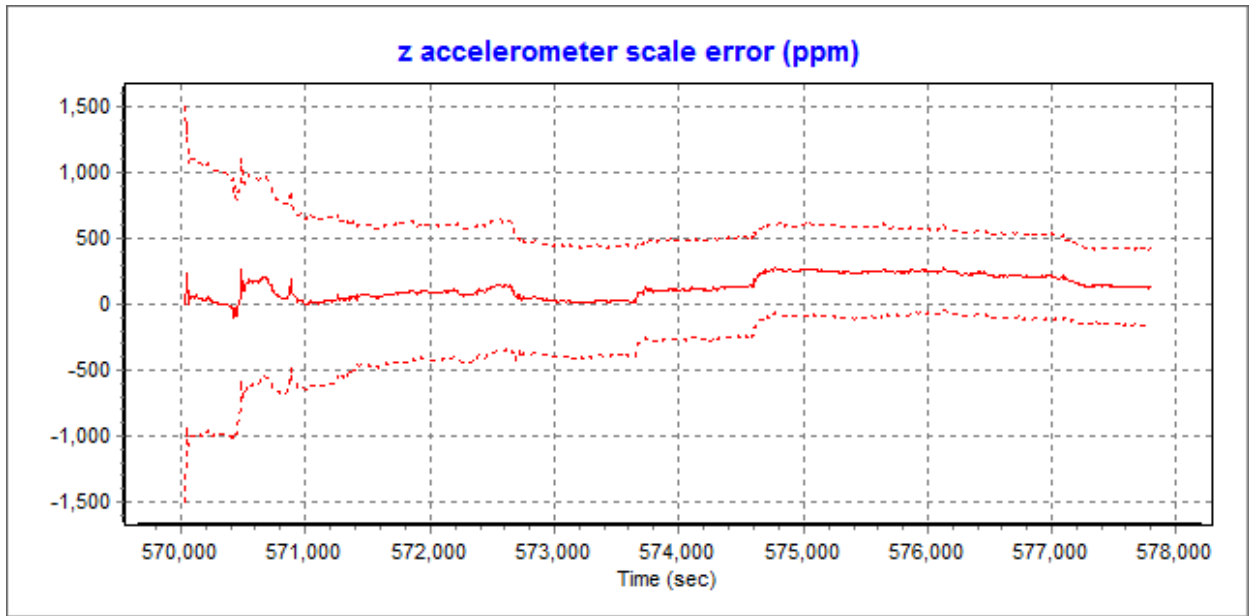
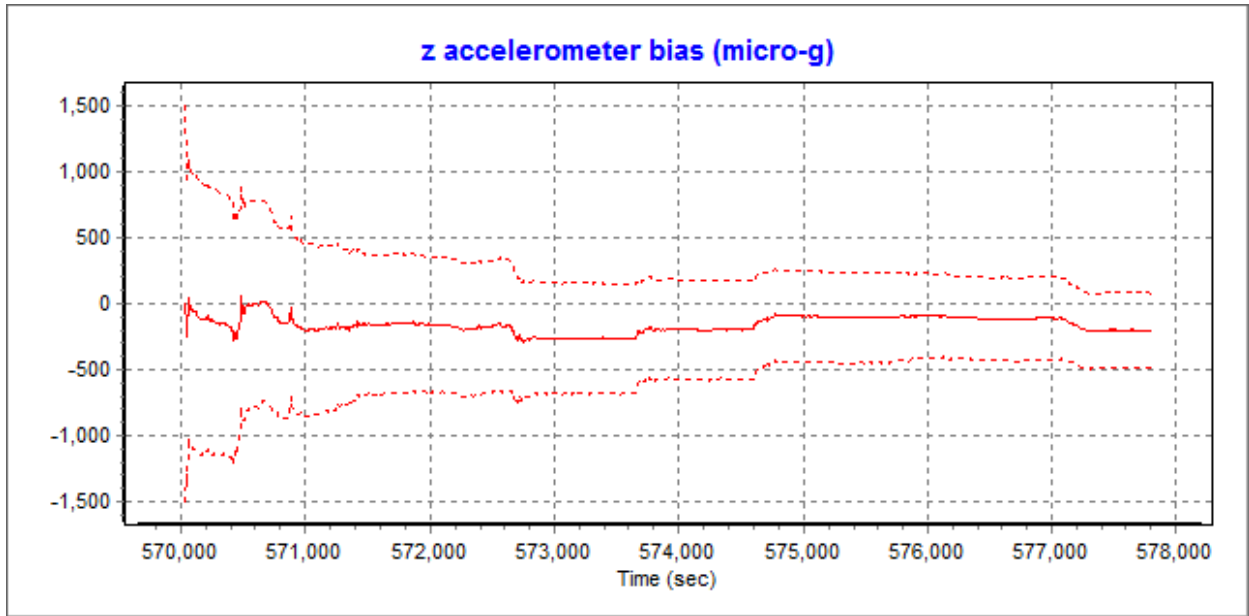
### Sensor Errors

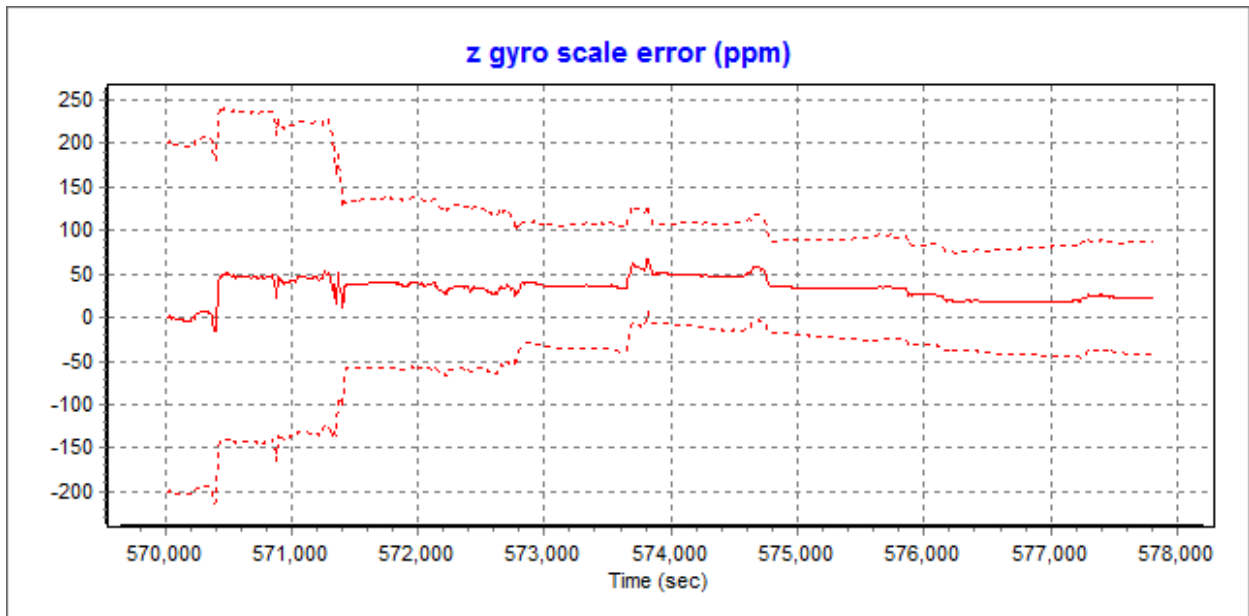
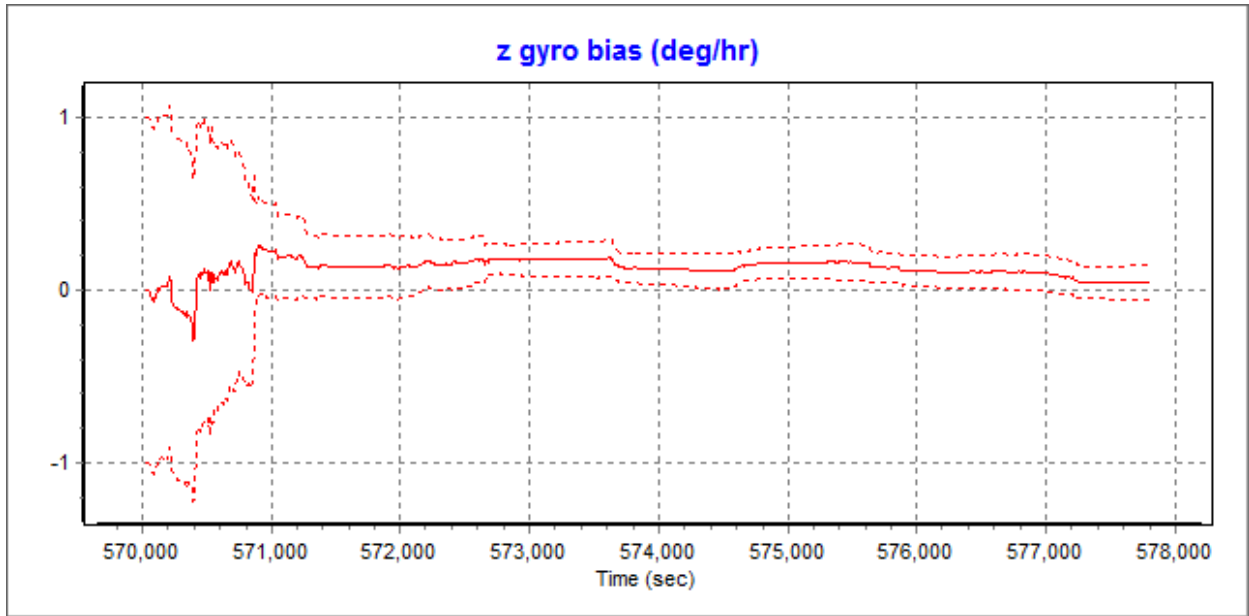


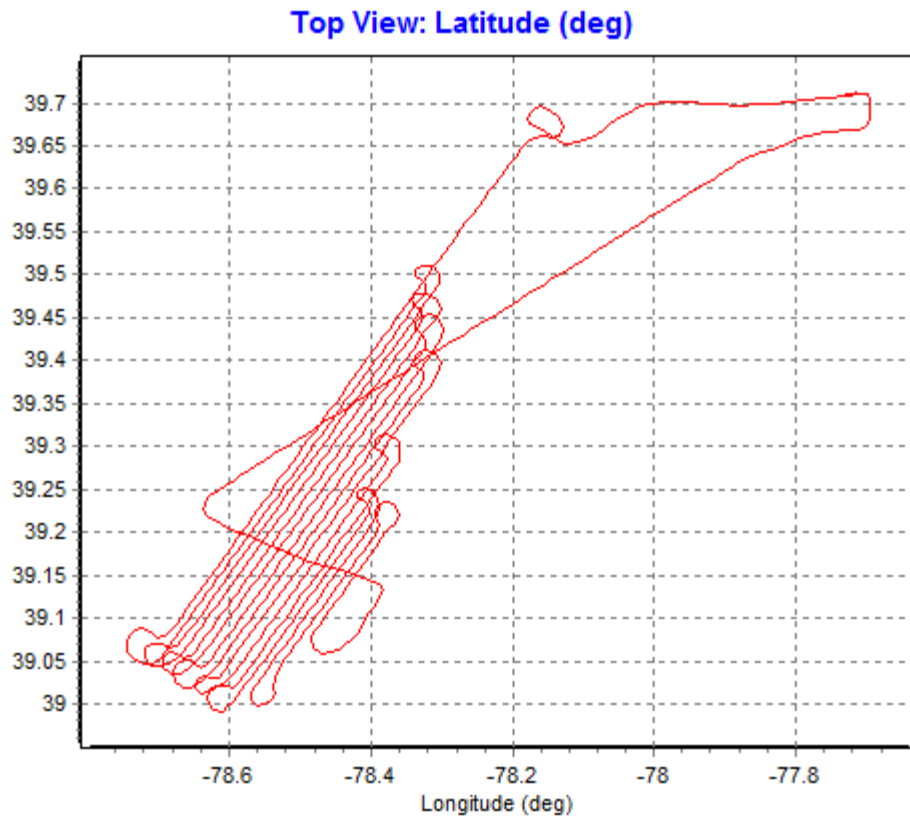






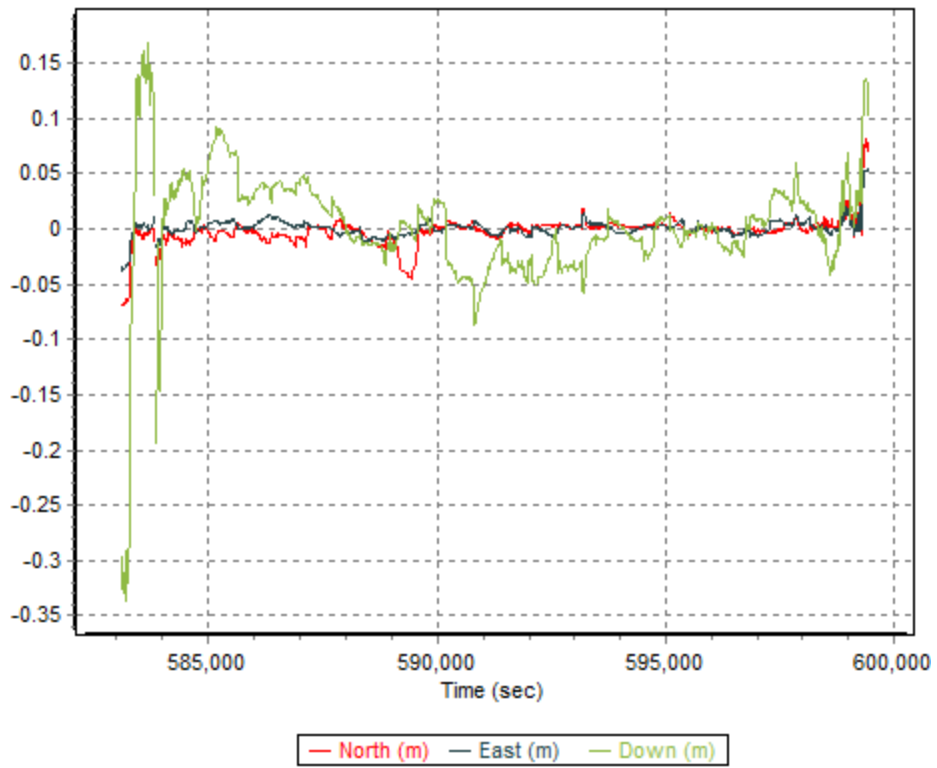




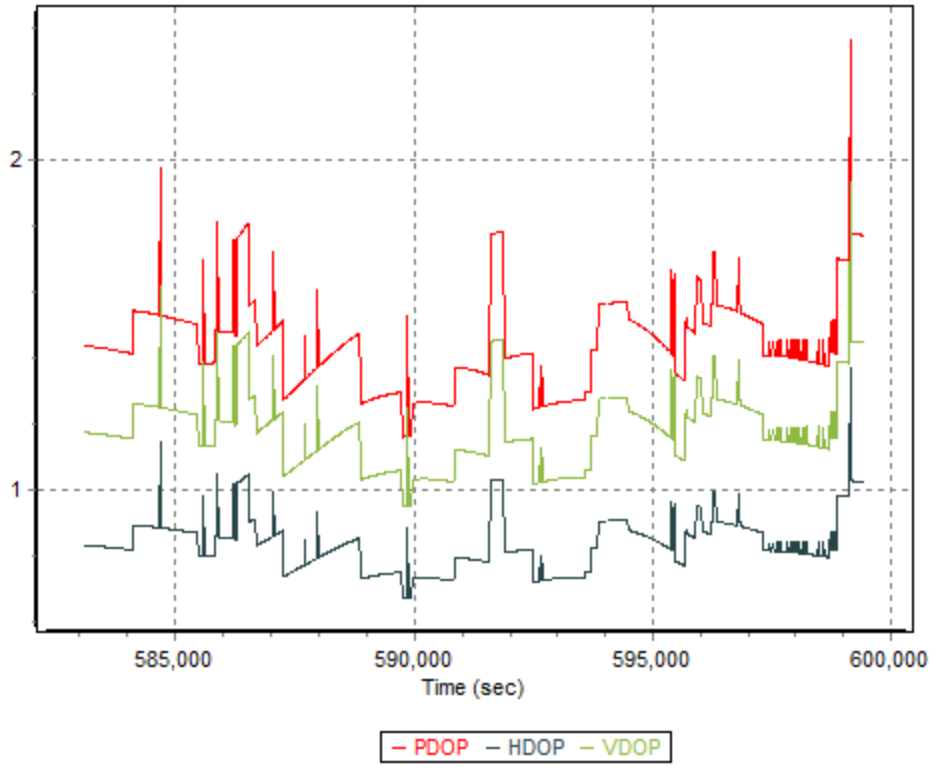


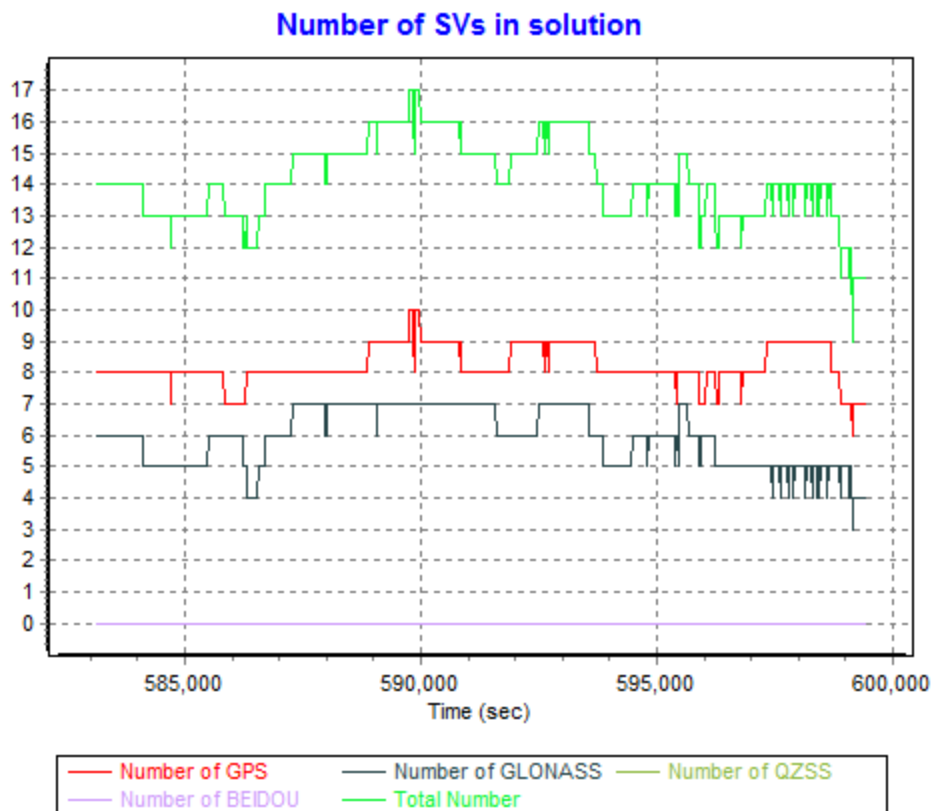


### Forward/Reverse Separation



### DOP





### Processing Summary Information

Program: POSPac MMS  
Version: 7.2.5934.15637  
Project: \\sa\data\216027\20161105\_WV\_B

Solution Type: IN-Fusion SmartBase

Fixed: 16382 (99.99%)  
Float: 0 (0.0%)  
No Solution: 2 (0.01%)

Number of Epochs:

Total in RAW file: 16390  
No processed position: 6

Fwd/Rev Separation RMS Values (m):

East: 0.008  
North: 0.013  
Height: 0.056

Fwd/Rev Sep. RMS for 25%-75% weighting (m): 8195 occurrences

East: 0.005  
North: 0.005  
Height: 0.025

Position Standard Deviation Percentages:

0.00 - 0.10 m: 99.68 %  
 0.10 - 0.30 m: 0.32 %  
 0.30 - 1.00 m: 0.0 %  
 1.00 - 5.00 m: 0.0 %  
 5.00 m + over: 0.0 %

Percentages of epochs with DD\_DOP over 10.00: 0 %

DOP over Tol: 1.35 %

Baseline Distances (km):

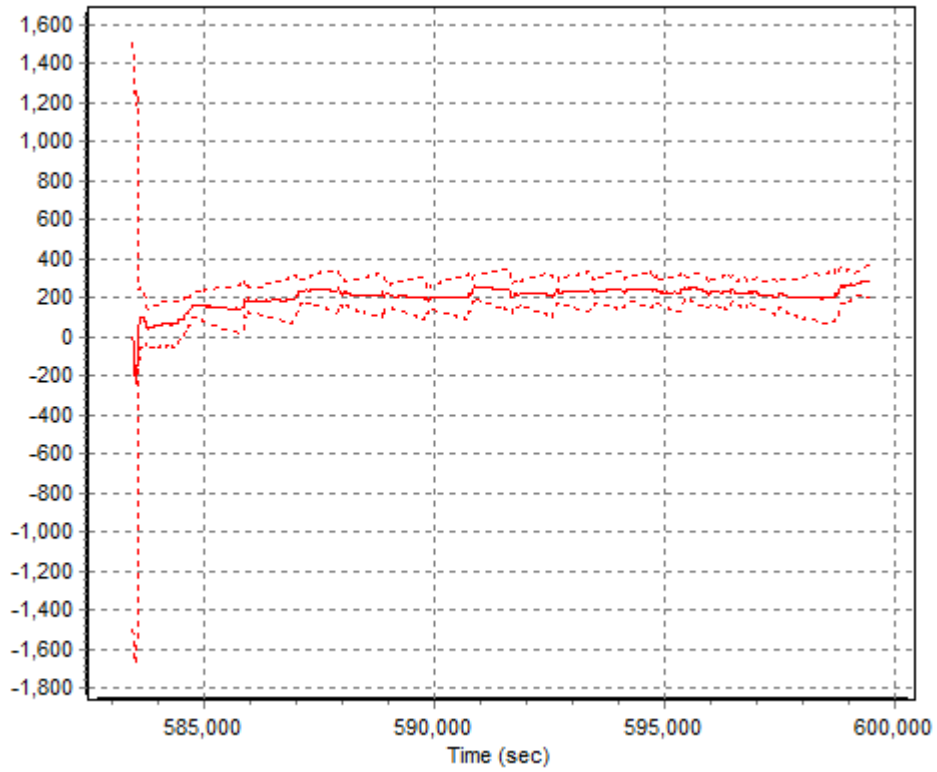
Maximum: 72.94  
 Minimum: 0.41  
 Average: 27.35  
 First Epoch: 70.78  
 Last Epoch: 70.80

**CORS Base Stations**

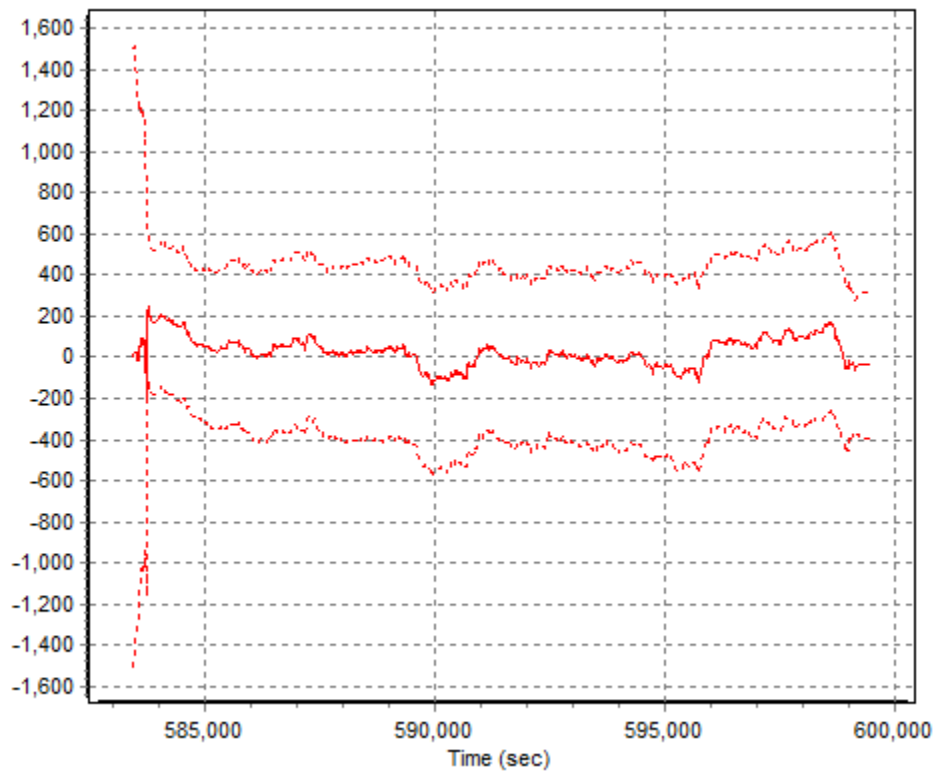
Station	Original			Adjusted		
	Latitude	Longitude	Altitude	Latitude	Longitude	Altitude
LOYC	N39°07'12.57588"	W78°12'02.63213"	201.813	N39°07'12.57588"	W78°12'02.63213"	201.813
ZDC1	N39°06'05.74451"	W77°32'33.88932"	79.596	N39°06'05.74491"	W77°32'33.88956"	79.582
WVNR	N38°53'44.53445"	W79°51'30.29433"	581.501	N38°53'44.53478"	W79°51'30.29456"	581.472
WVMF	N39°04'32.37373"	W78°55'57.02159"	312.272	N39°04'32.37416"	W78°55'57.02178"	312.251
WVCV	N39°00'55.10519"	W79°27'25.03346"	967.96	N39°00'55.10493"	W79°27'25.03287"	967.936
WVBU	N39°20'16.85129"	W78°54'48.61063"	198.787	N39°20'16.85161"	W78°54'48.61094"	198.761
VA01	N38°01'13.99971"	W78°00'53.07980"	111.259	N38°01'13.99968"	W78°00'53.08320"	111.379
UMBC	N39°15'24.39096"	W76°42'41.48919"	64.652	N39°15'24.39150"	W76°42'41.48976"	64.621
PAWG	N40°18'19.27228"	W79°30'22.40231"	334.927	N40°18'19.27251"	W79°30'22.40273"	334.908
PAFU	N39°55'35.71864"	W79°41'50.53507"	326.747	N39°55'35.71890"	W79°41'50.53549"	326.73
PAFM	N39°57'44.94246"	W77°58'43.64064"	285.509	N39°57'44.94275"	W77°58'43.64114"	285.476
PAFC	N39°56'49.44385"	W77°40'11.19016"	175.871	N39°56'49.44398"	W77°40'11.19046"	175.846
LWX1	N38°58'21.66394"	W77°29'18.98431"	60.728	N38°58'21.66427"	W77°29'18.98491"	60.713
LOYY	N38°53'18.57661"	W78°29'56.96629"	220.904	N38°53'18.57709"	W78°29'56.96665"	220.885
LOYS	N39°38'46.42051"	W78°43'47.92090"	168.093	N39°38'46.42094"	W78°43'47.92147"	168.052
LOYQ	N39°38'02.62363"	W77°42'51.12034"	127.23	N39°38'02.62423"	W77°42'51.12082"	127.179
LOYK	N39°07'51.88861"	W76°47'26.28029"	34.002	N39°07'51.88895"	W76°47'26.28053"	33.972
LOYJ	N38°28'20.92222"	W78°00'36.16886"	103.853	N38°28'20.92269"	W78°00'36.16892"	103.828
LOYI	N38°01'59.45425"	W78°30'42.43141"	154.965	N38°01'59.45459"	W78°30'42.43172"	154.932
LOYB	N38°43'42.05157"	W77°11'02.31940"	-2.857	N38°43'42.05201"	W77°11'02.31954"	-2.903
LOYA	N38°25'33.92918"	W78°53'21.79748"	363.919	N38°25'33.92954"	W78°53'21.79785"	363.938
LOY8	N38°16'58.72082"	W77°27'09.48952"	-6.206	N38°16'58.72127"	W77°27'09.49009"	-6.235
GODZ	N39°01'18.21995"	W76°49'36.59575"	14.484	N39°01'18.22022"	W76°49'36.59584"	14.468
GODE	N39°01'18.21999"	W76°49'36.59577"	14.482	N39°01'18.22022"	W76°49'36.59585"	14.467
ALLG	N39°39'13.91860"	W78°43'50.52686"	174.48	N39°39'13.91894"	W78°43'50.52733"	174.475

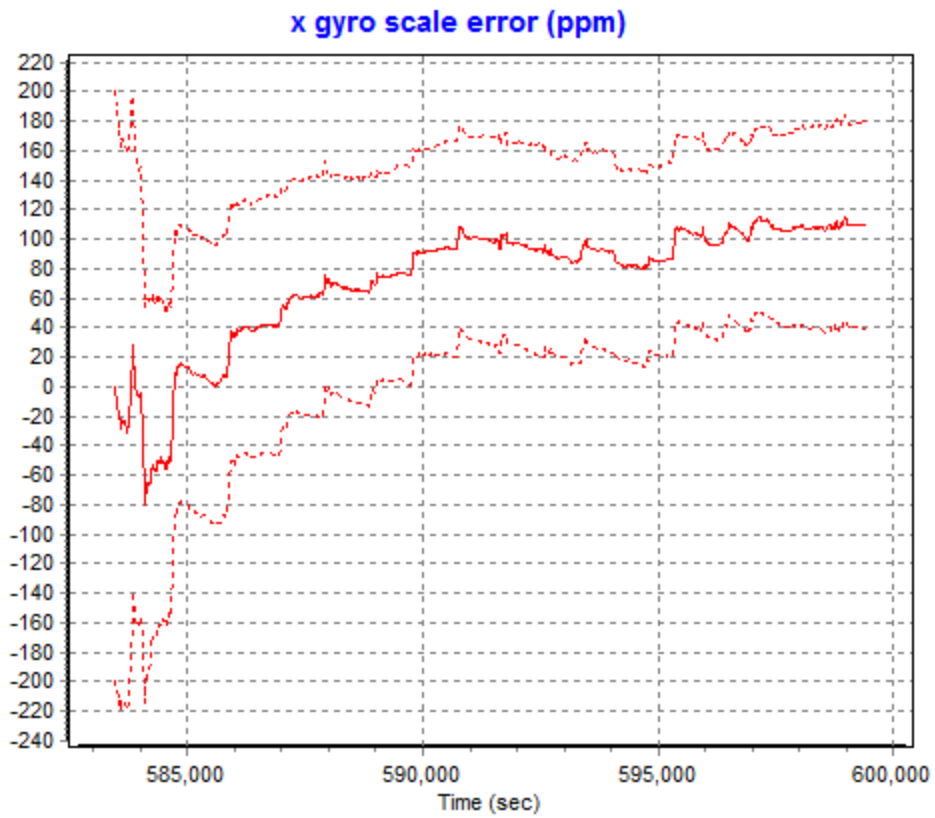
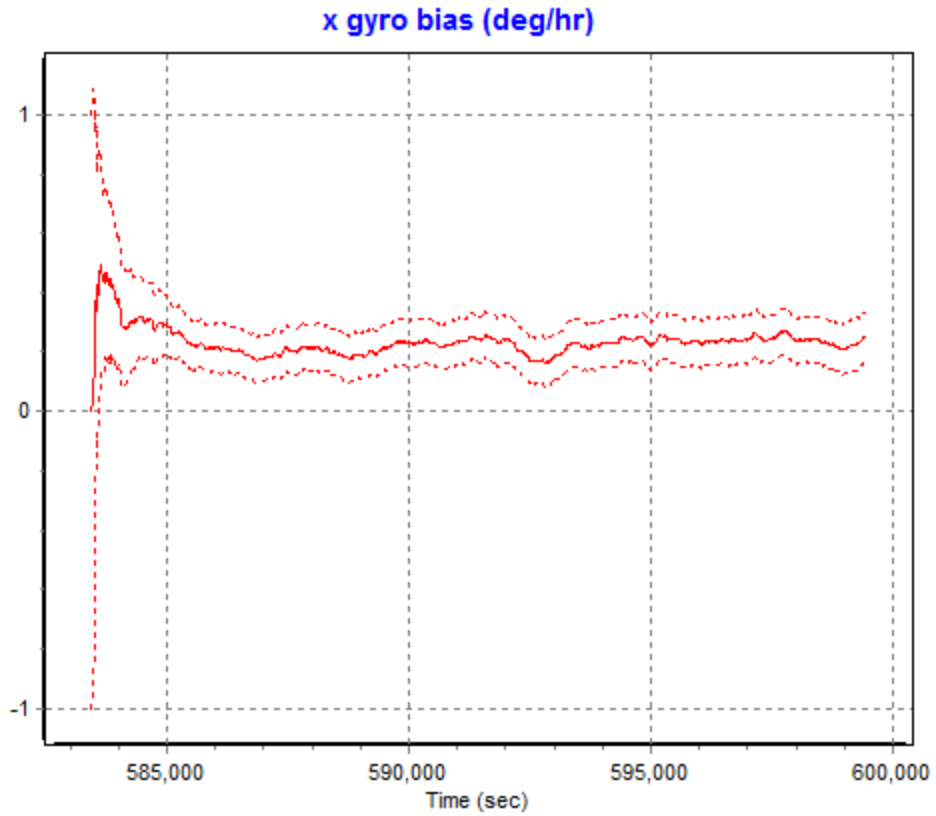
### Sensor Errors

**x accelerometer bias (micro-g)**

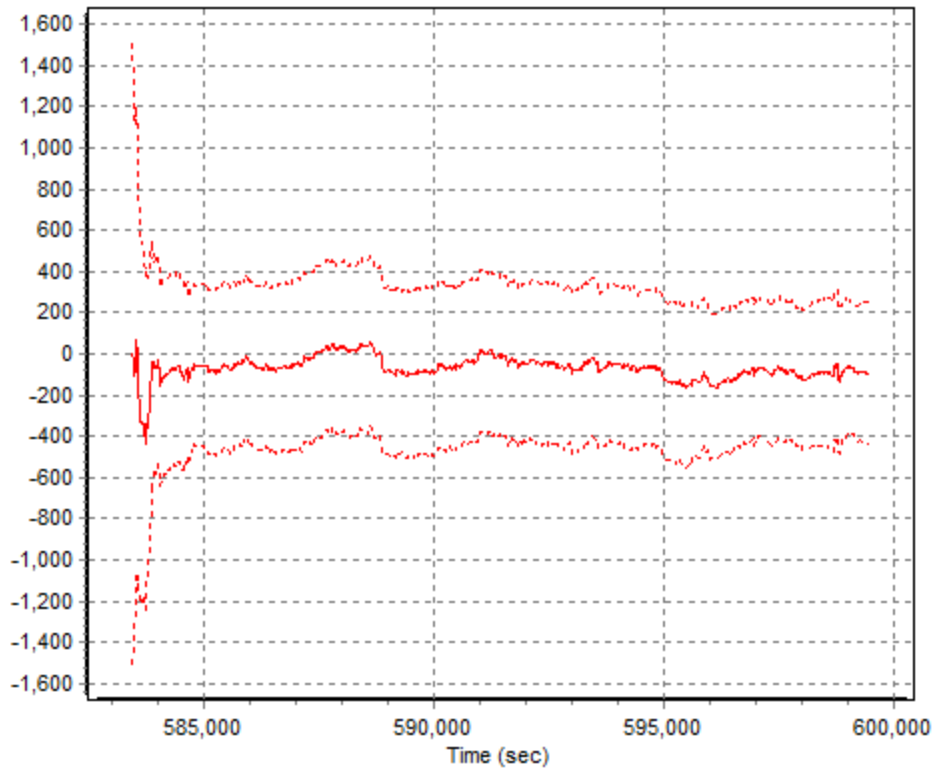


**x accelerometer scale error (ppm)**

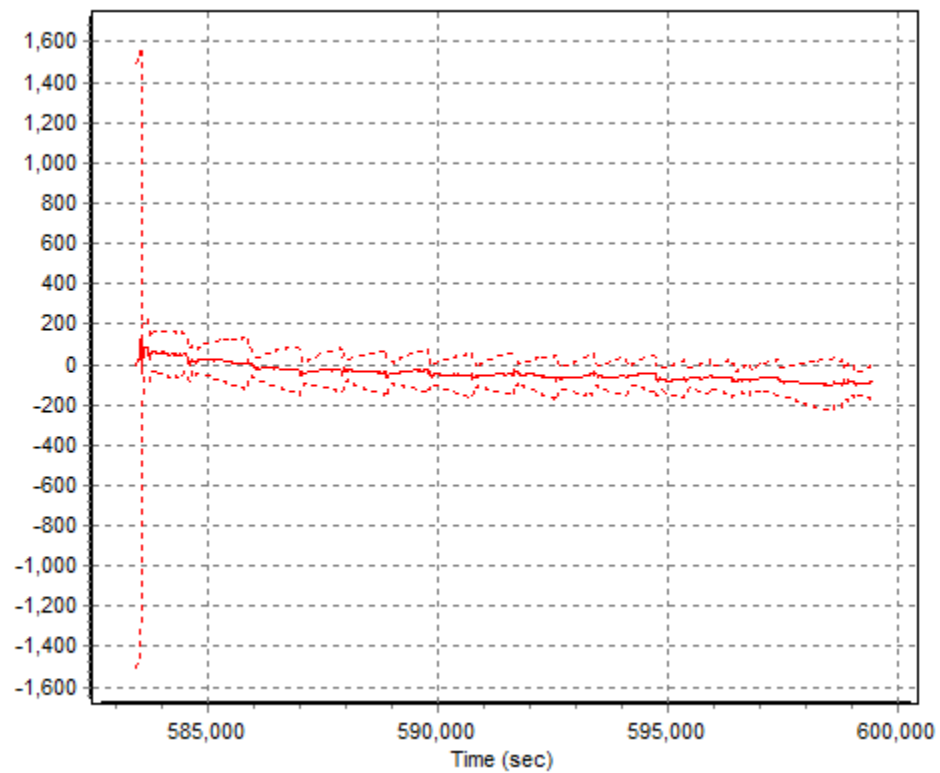


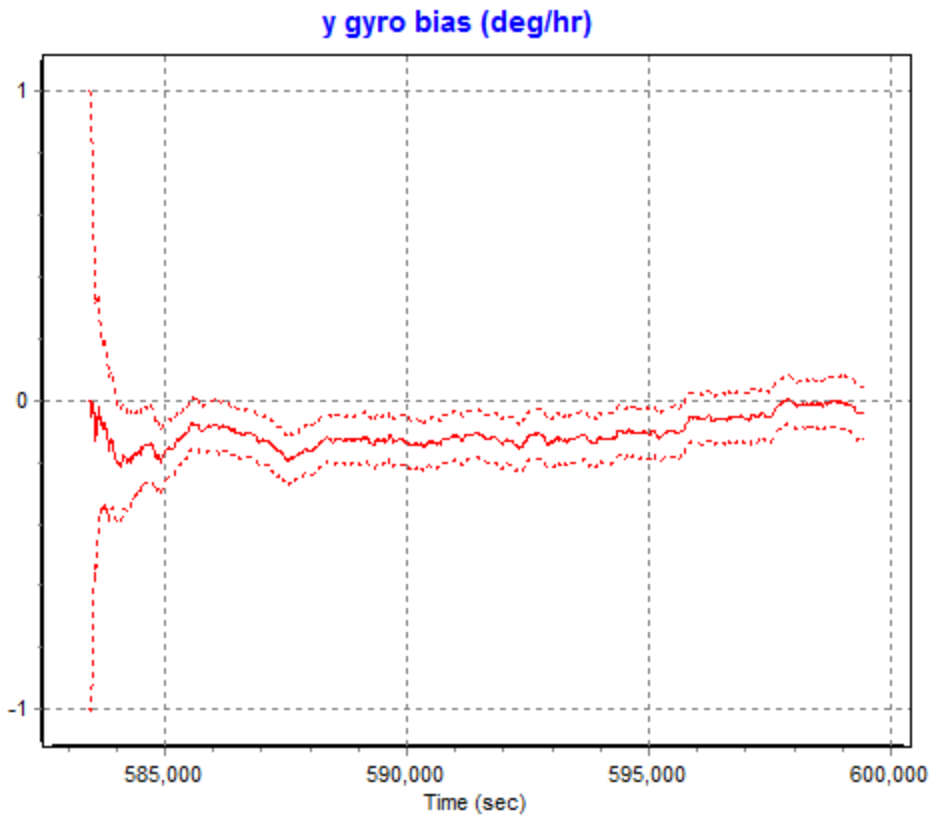
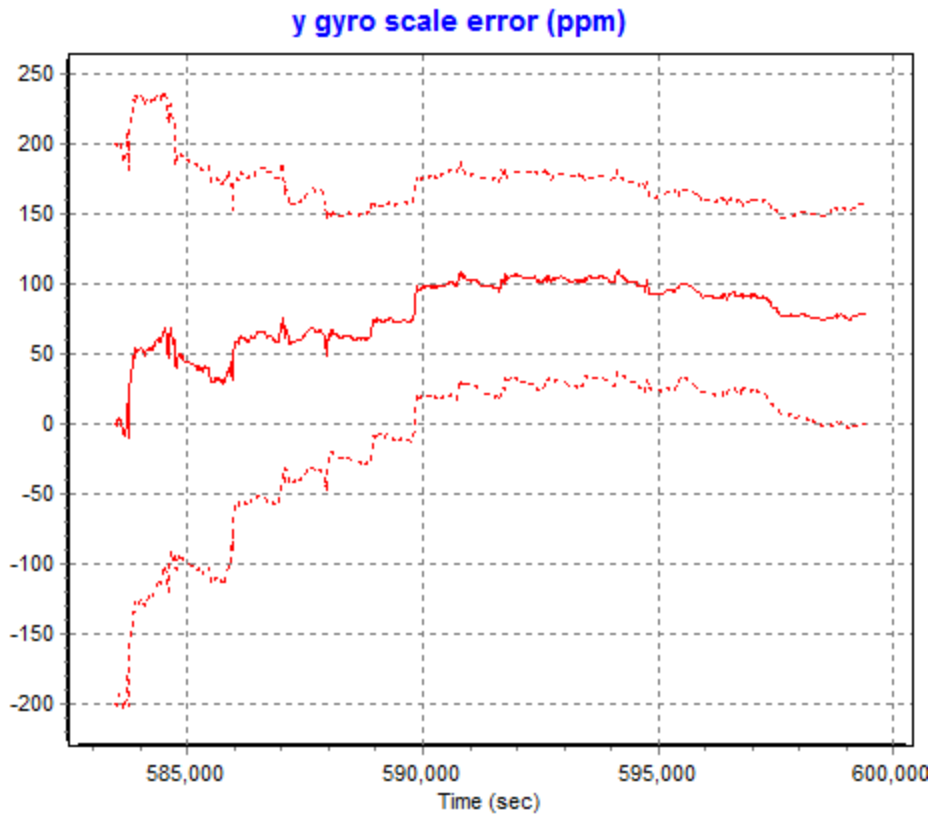


**y accelerometer scale error (ppm)**



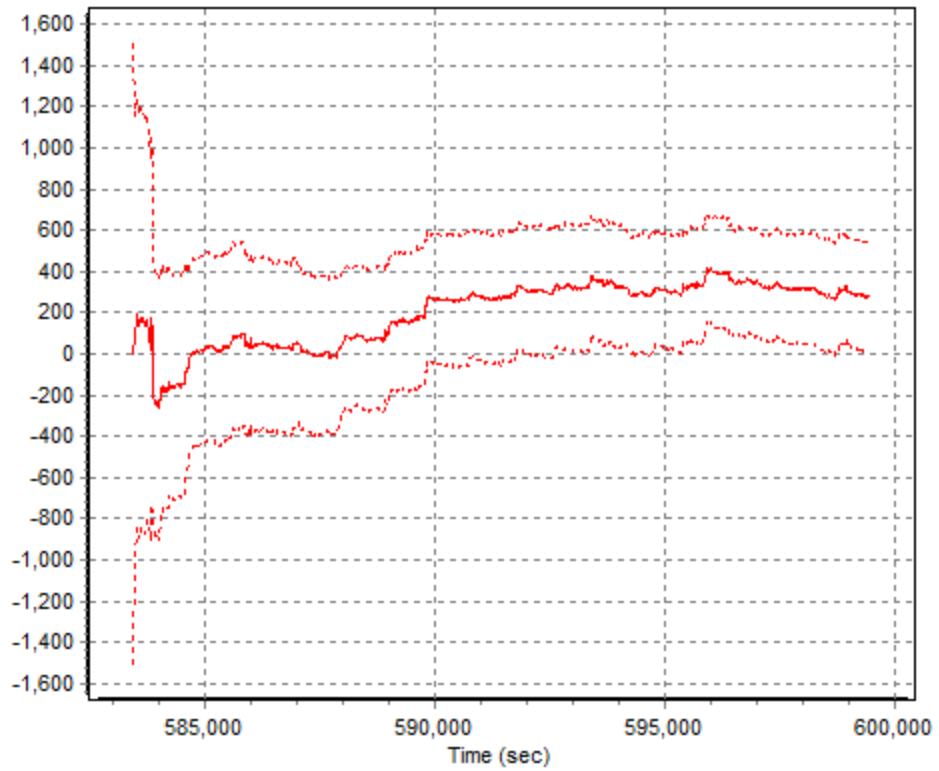
**y accelerometer bias (micro-g)**



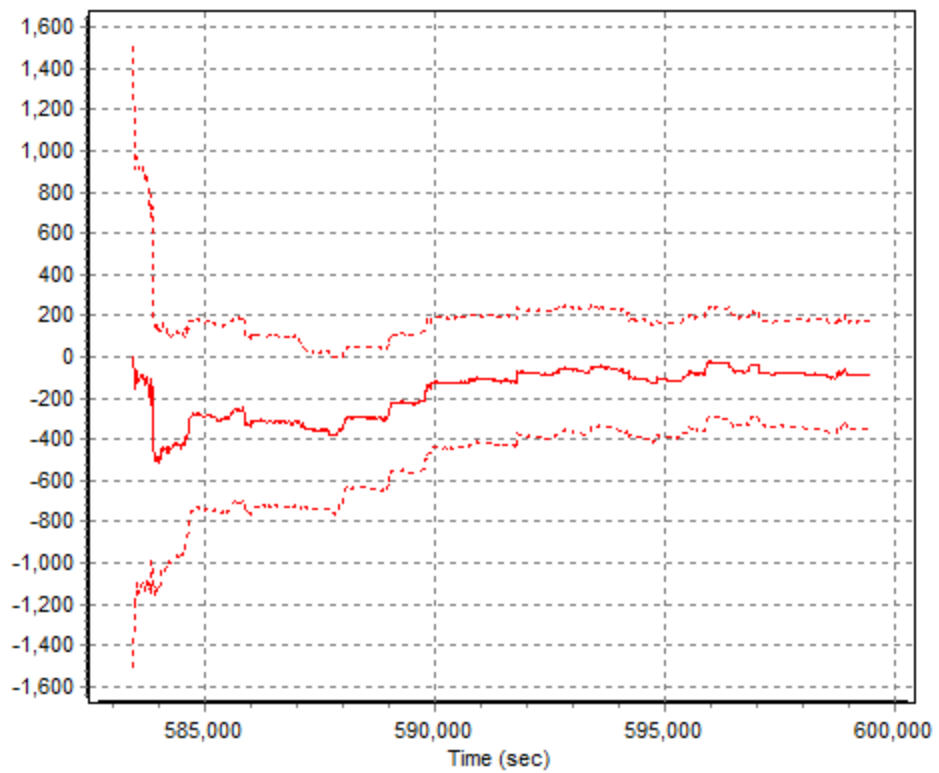




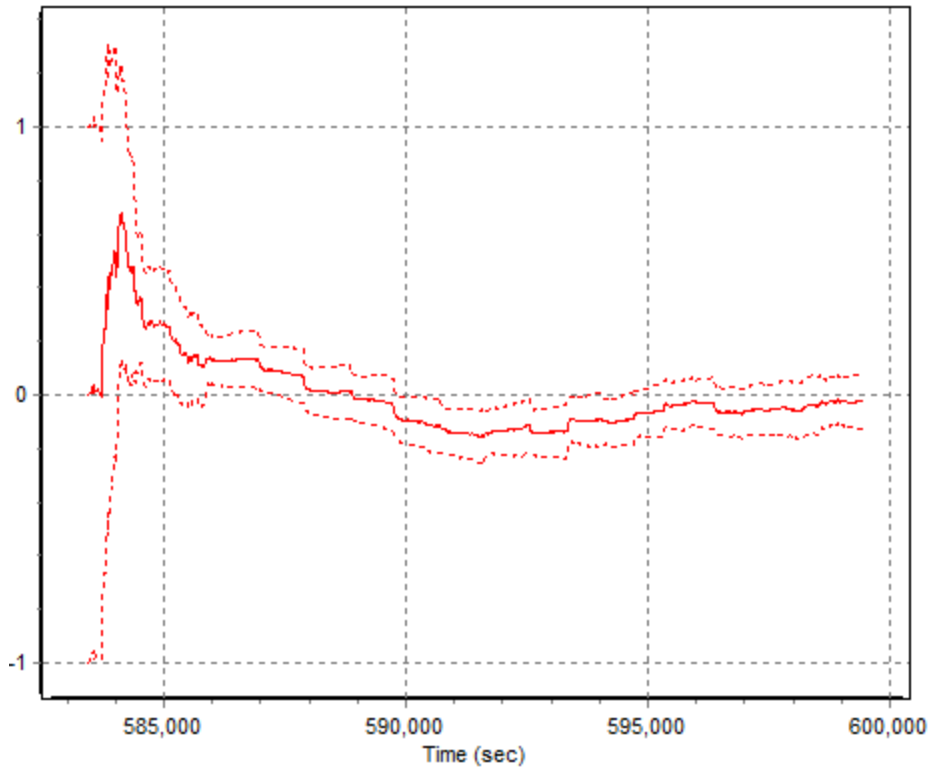
**z accelerometer scale error (ppm)**



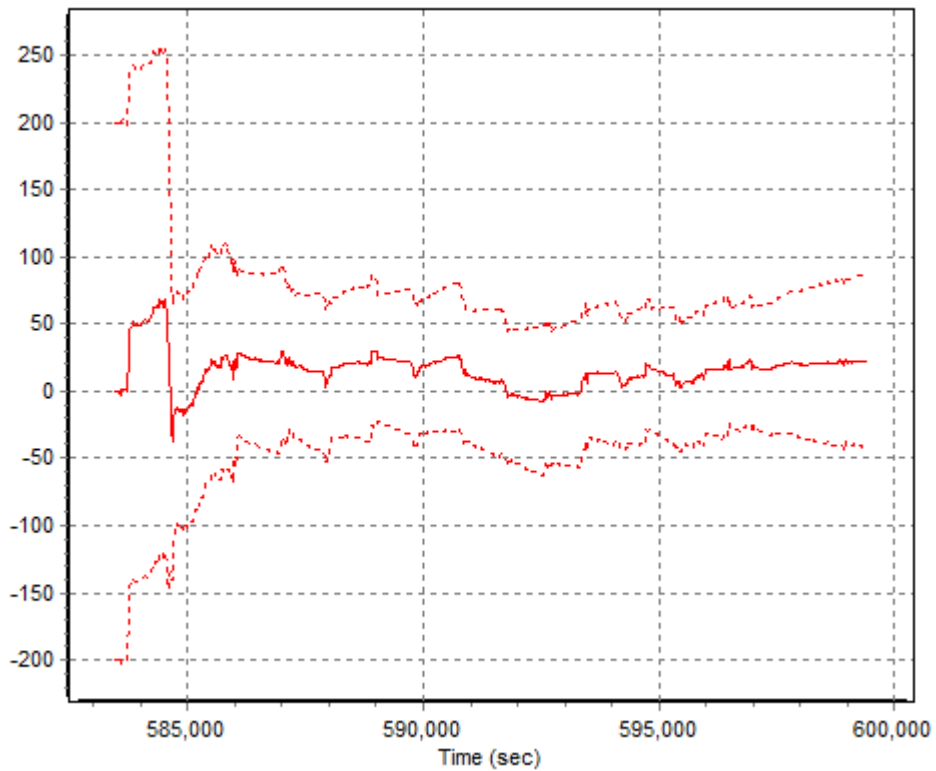
**z accelerometer bias (micro-g)**



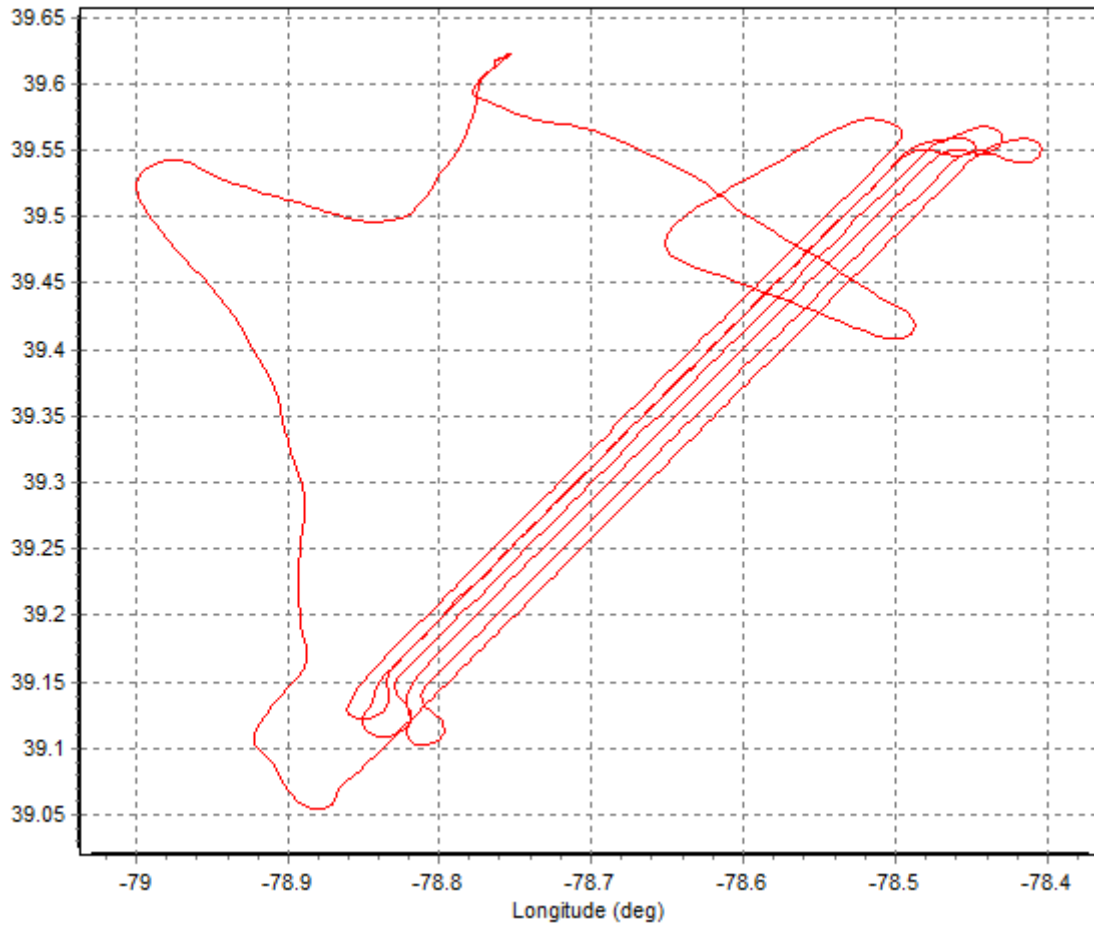
**z gyro bias (deg/hr)**



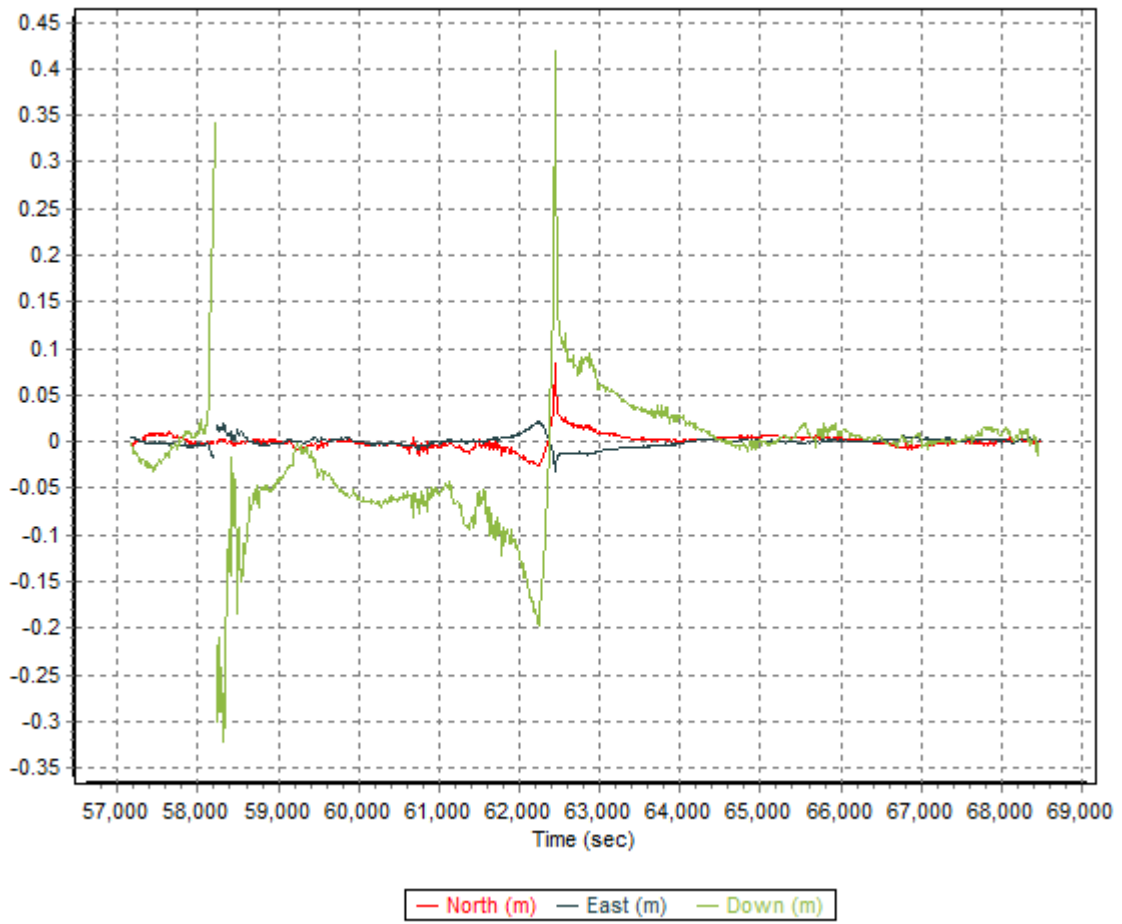
**z gyro scale error (ppm)**



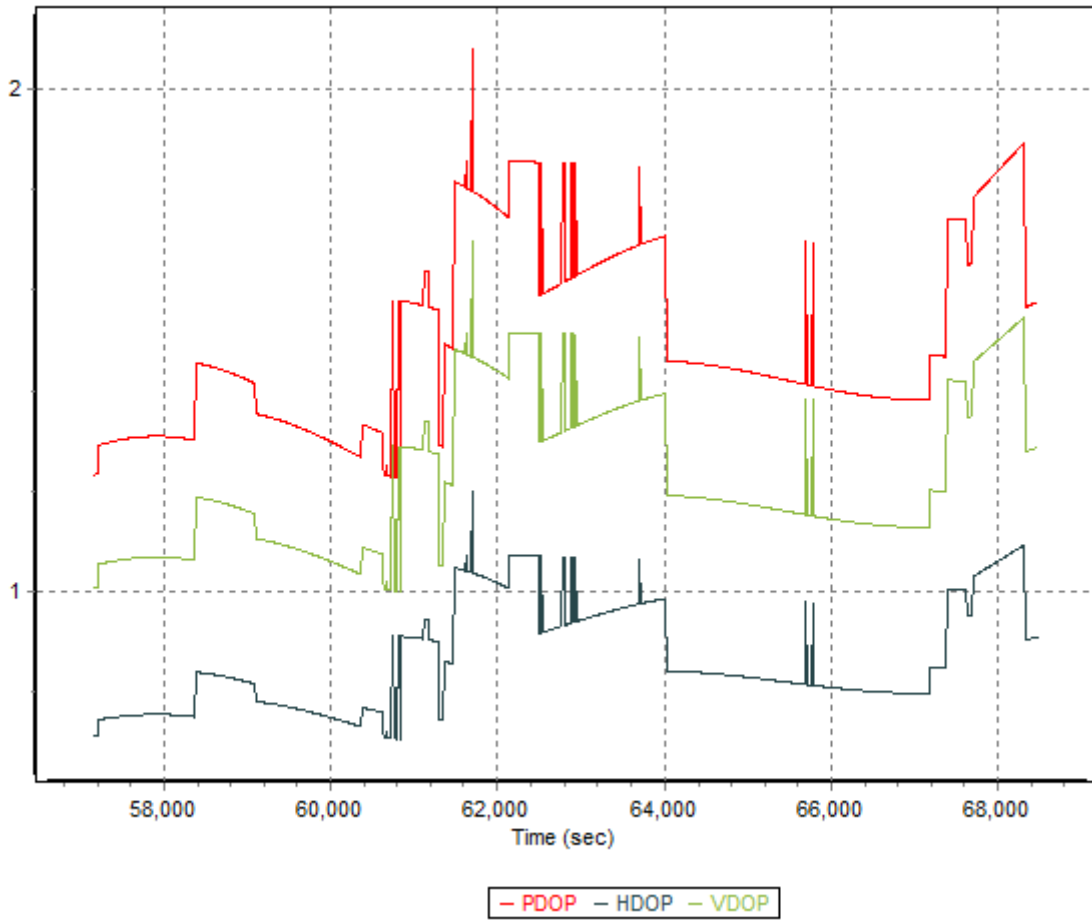
Top View: Latitude (deg)

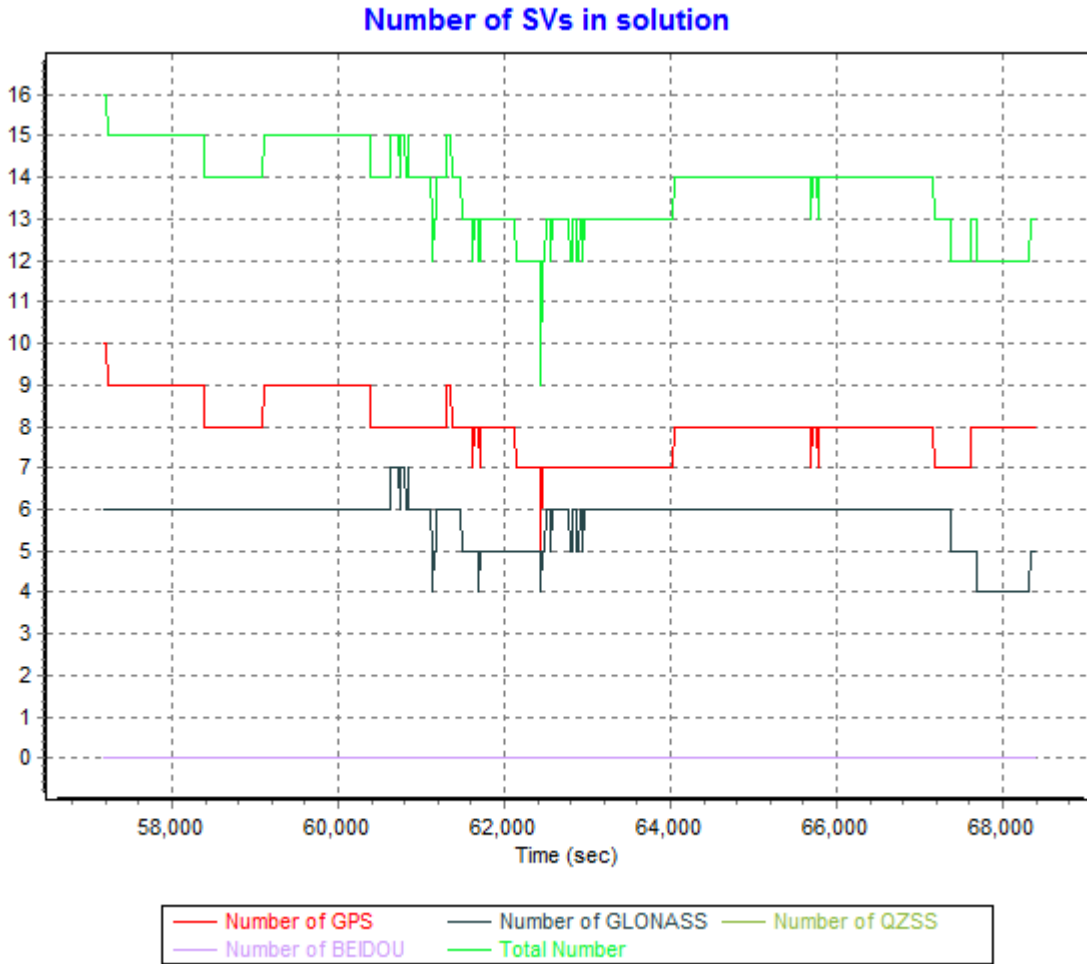


### Forward/Reverse Separation



### DOP





### Processing Summary Information

Program: POSPac MMS  
Version: 7.2.5934.15637  
Project: \\sa\data\216027\20161106\_WV\_A

Solution Type: IN-Fusion SmartBase

Fixed: 11262 (99.99%)  
Float: 0 (0.0%)  
No Solution: 1 (0.01%)

Number of Epochs:

Total in RAW file: 11332  
No processed position: 69

Fwd/Rev Separation RMS Values (m):

East: 0.005  
North: 0.005  
Height: 0.022

Fwd/Rev Sep. RMS for 25%-75% weighting (m): 5666 occurrences

East: 0.003  
North: 0.002  
Height: 0.026

Position Standard Deviation Percentages:

0.00 - 0.10 m: 100.0 %  
0.10 - 0.30 m: 0.0 %  
0.30 - 1.00 m: 0.0 %  
1.00 - 5.00 m: 0.0 %  
5.00 m + over: 0.0 %

Percentages of epochs with DD\_DOP over 10.00: 0 %

DOP over Tol: 1.49 %

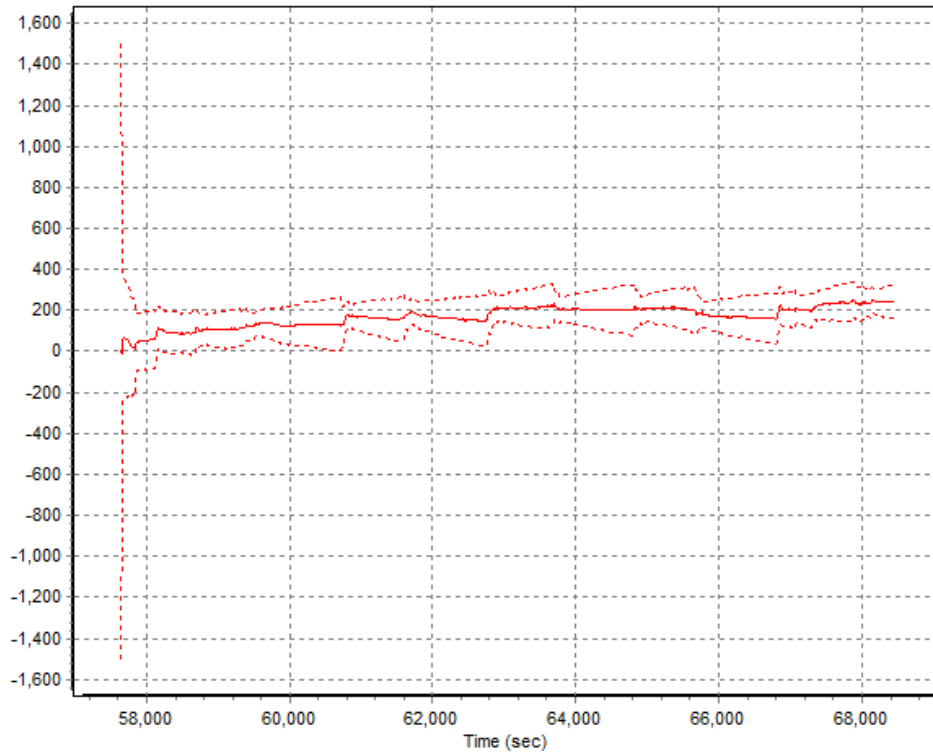
Baseline Distances (km):

Maximum: 42.00  
Minimum: 4.32  
Average: 19.53  
First Epoch: 24.31  
Last Epoch: 24.52

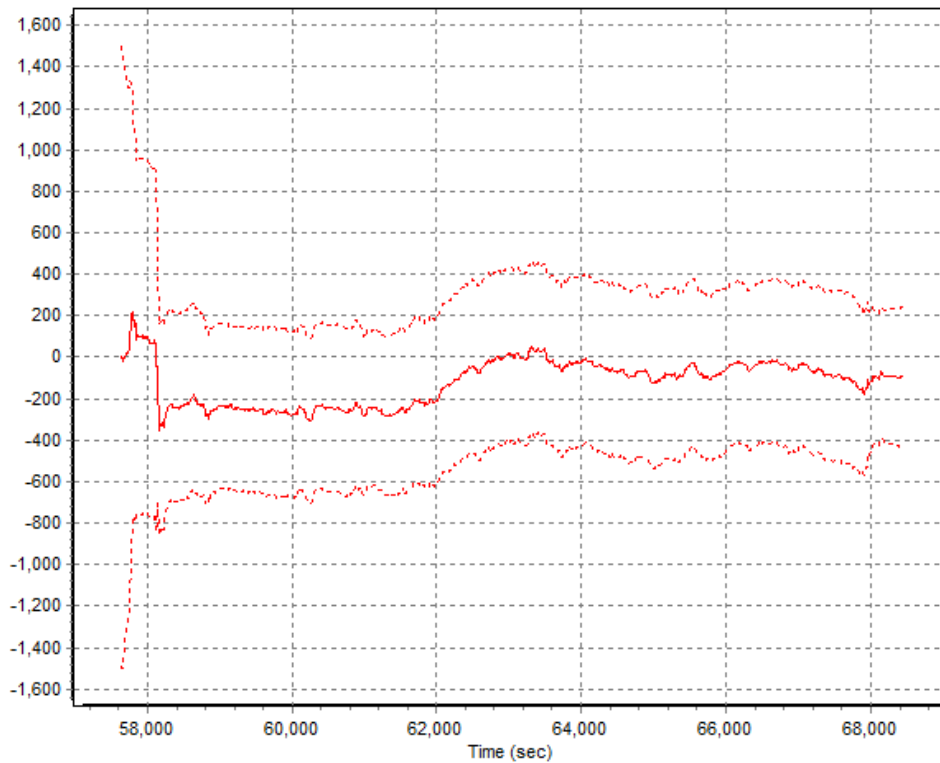
### CORS Base Stations

Station	Original			Adjusted		
	Latitude	Longitude	Altitude	Latitude	Longitude	Altitude
WVBU	N39°20'16.85174"	W78°54'48.61184"	198.794	N39°20'16.85114"	W78°54'48.61041"	198.805
ZDC1	N39°06'05.74451"	W77°32'33.88932"	79.596	N39°06'05.74447"	W77°32'33.88903"	79.621
WVNR	N38°53'44.53445"	W79°51'30.29434"	581.501	N38°53'44.53432"	W79°51'30.29412"	581.512
WVMF	N39°04'32.37373"	W78°55'57.02160"	312.272	N39°04'32.37371"	W78°55'57.02131"	312.287
WVGB	N38°25'48.45398"	W79°49'01.31917"	811.181	N38°25'48.45359"	W79°49'01.31894"	811.193
WVCV	N39°00'55.10519"	W79°27'25.03347"	967.96	N39°00'55.10446"	W79°27'25.03231"	967.977
WVBR	N39°18'28.91342"	W80°16'38.64393"	268.986	N39°18'28.91322"	W80°16'38.64379"	269.011
PAWG	N40°18'19.27228"	W79°30'22.40231"	334.927	N40°18'19.27207"	W79°30'22.40203"	334.946
PAII	N40°36'20.27853"	W79°11'09.35328"	377.906	N40°36'20.27845"	W79°11'09.35327"	377.921
PAGW	N39°53'56.14859"	W80°09'36.40312"	262.754	N39°53'56.14770"	W80°09'36.40177"	262.763
PAFU	N39°55'35.71864"	W79°41'50.53507"	326.747	N39°55'35.71847"	W79°41'50.53489"	326.774
PAFC	N39°56'49.44385"	W77°40'11.19016"	175.871	N39°56'49.44369"	W77°40'11.19037"	175.871
LWX1	N38°58'21.66394"	W77°29'18.98431"	60.728	N38°58'21.66376"	W77°29'18.98437"	60.759
LOYY	N38°53'18.57661"	W78°29'56.96629"	220.904	N38°53'18.57659"	W78°29'56.96610"	220.928
LOYS	N39°38'46.42051"	W78°43'47.92090"	168.093	N39°38'46.42051"	W78°43'47.92090"	168.093
LOYQ	N39°38'02.62363"	W77°42'51.12034"	127.23	N39°38'02.62378"	W77°42'51.12025"	127.223
LOYJ	N38°28'20.92222"	W78°00'36.16886"	103.853	N38°28'20.92221"	W78°00'36.16830"	103.867
LOYC	N39°07'12.57573"	W78°12'02.63164"	201.807	N39°07'12.57544"	W78°12'02.63144"	201.856
ALLG	N39°39'13.91860"	W78°43'50.52686"	174.48	N39°39'13.91853"	W78°43'50.52674"	174.511

x accelerometer bias (micro-g)

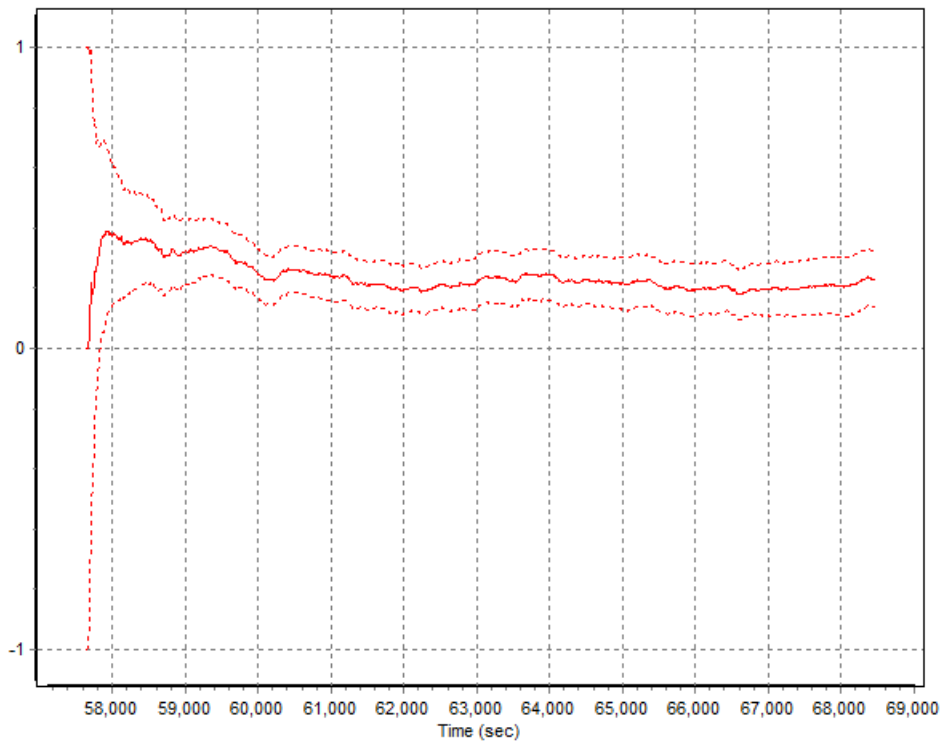


x accelerometer scale error (ppm)

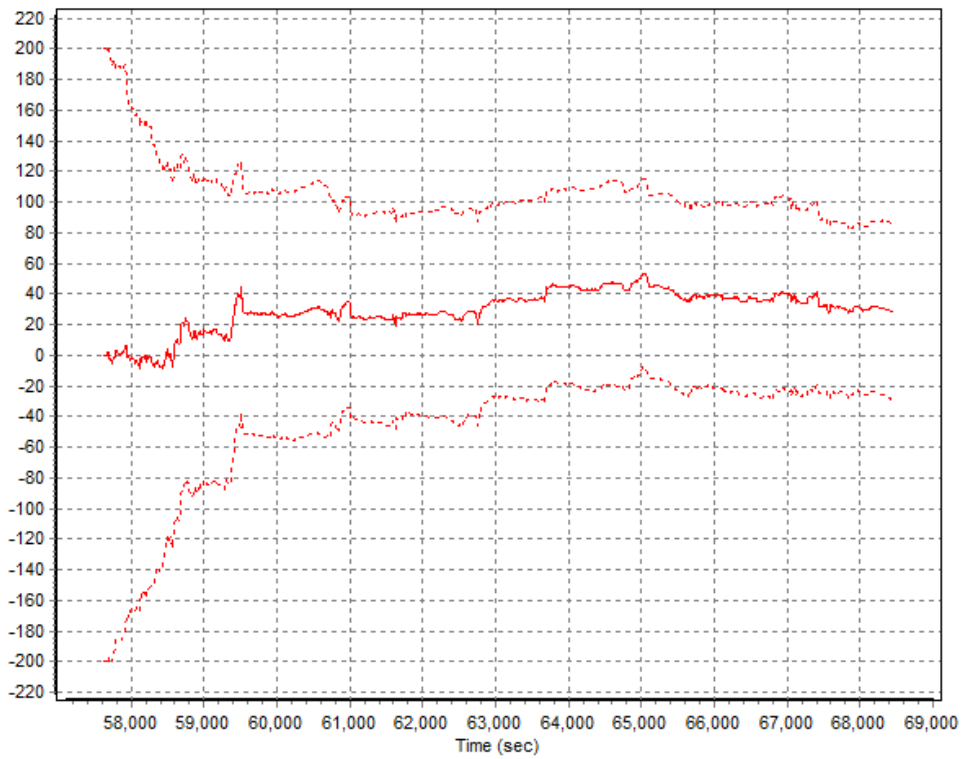


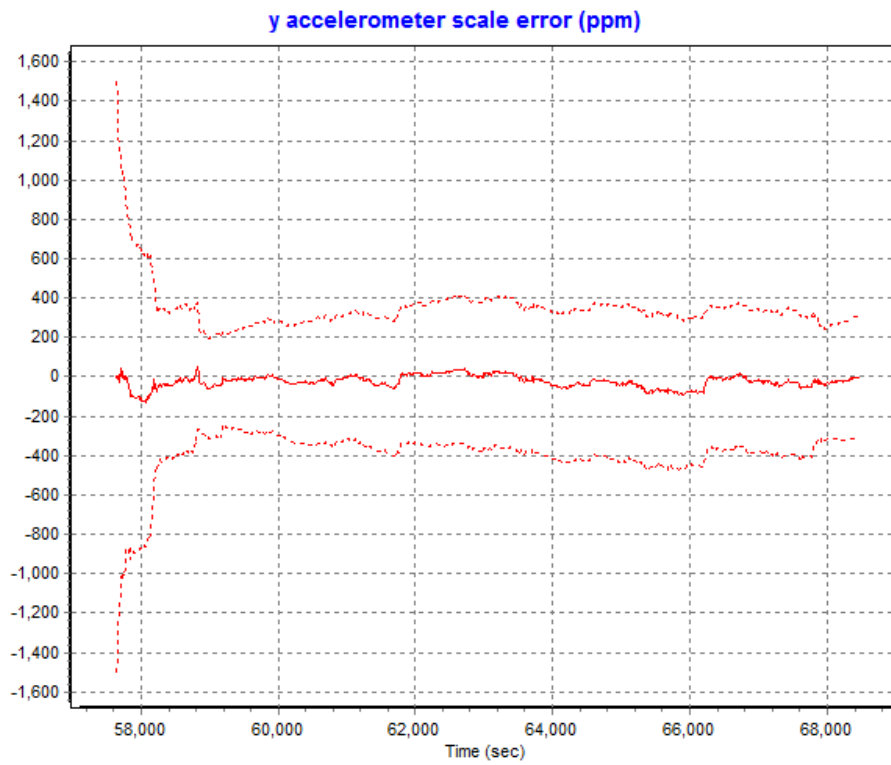
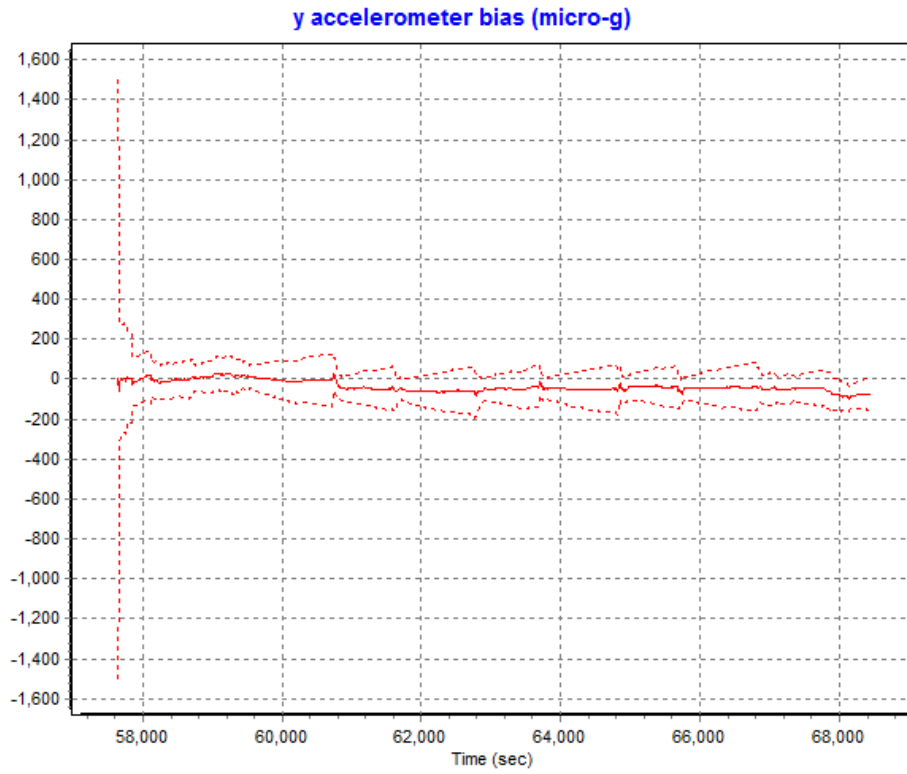


x gyro bias (deg/hr)

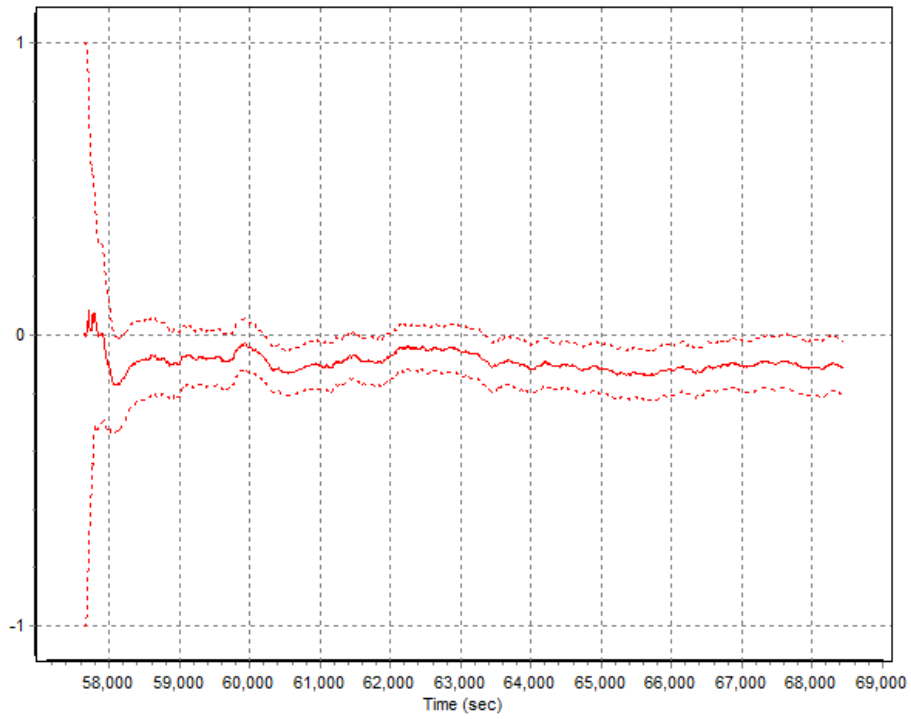


x gyro scale error (ppm)

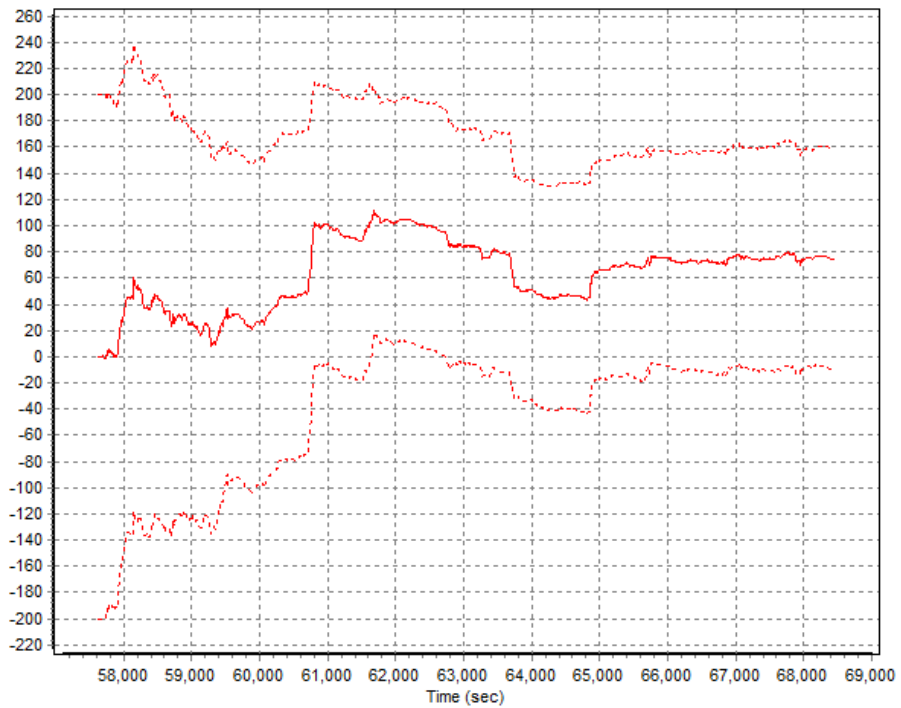


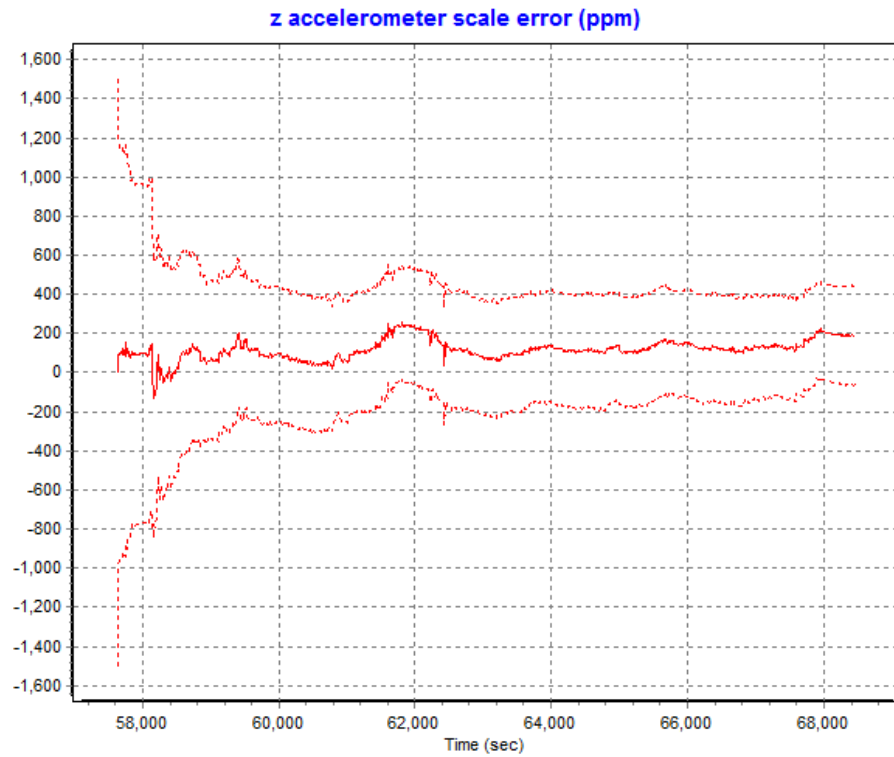
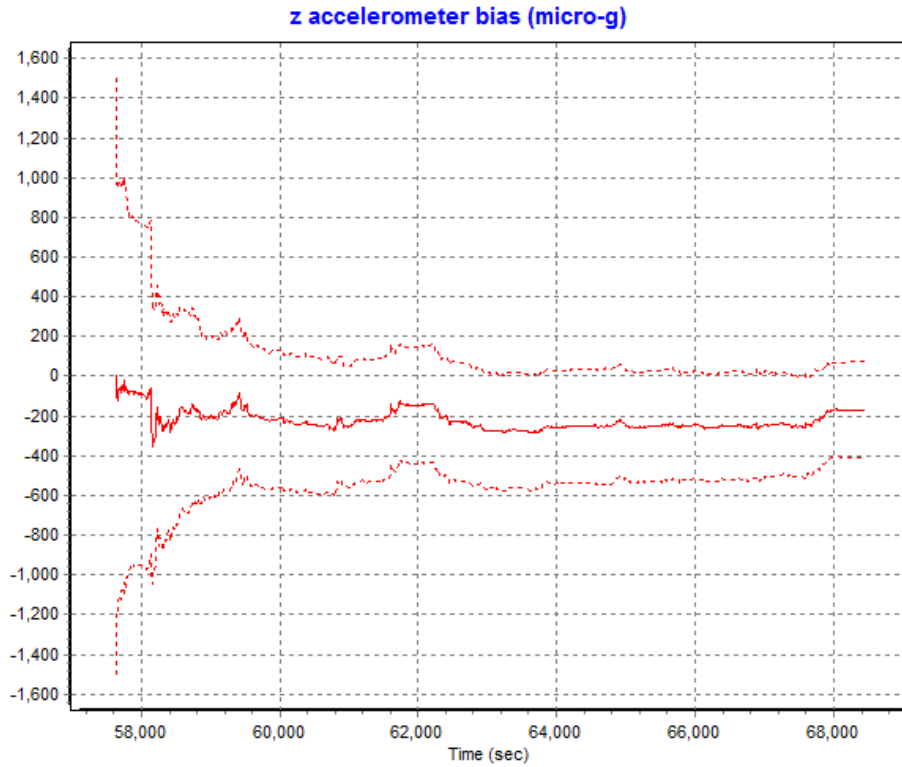


y gyro bias (deg/hr)

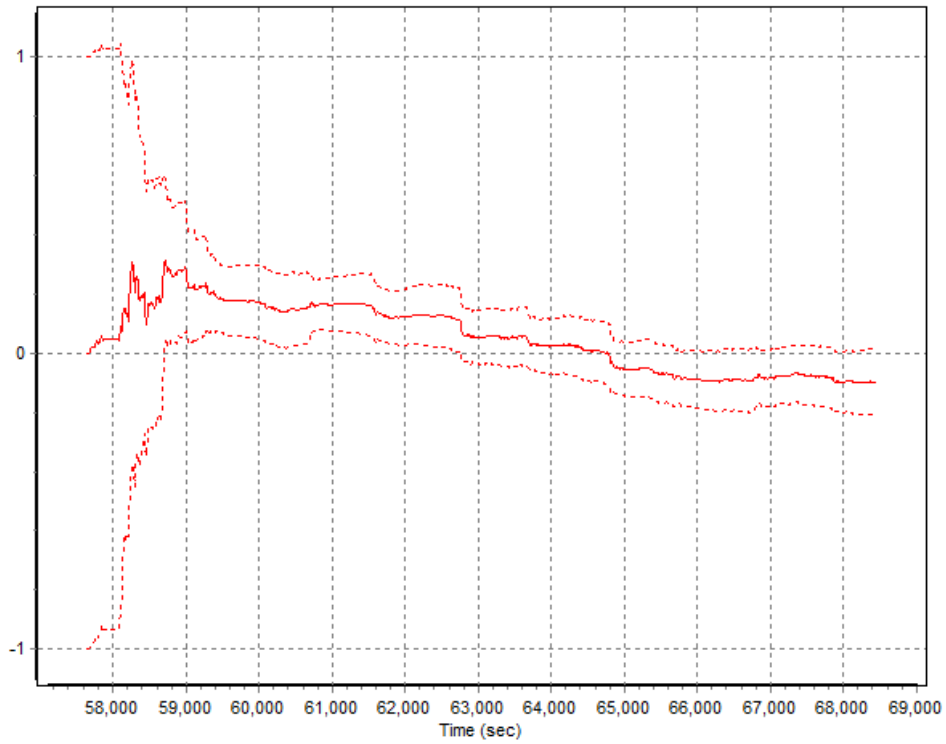


y gyro scale error (ppm)

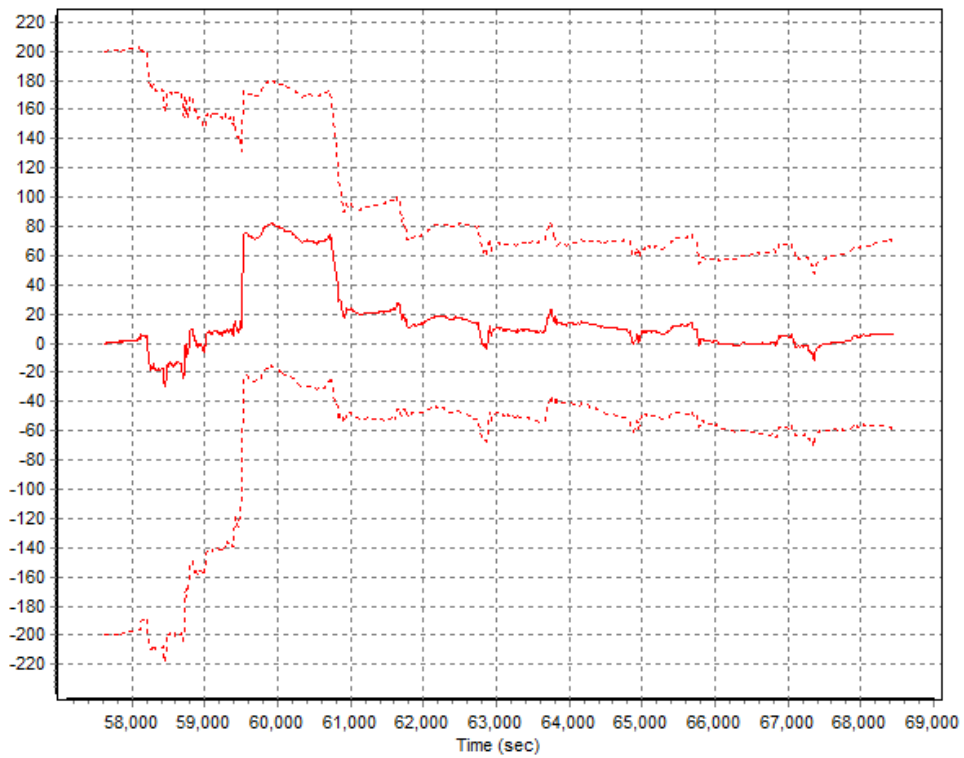




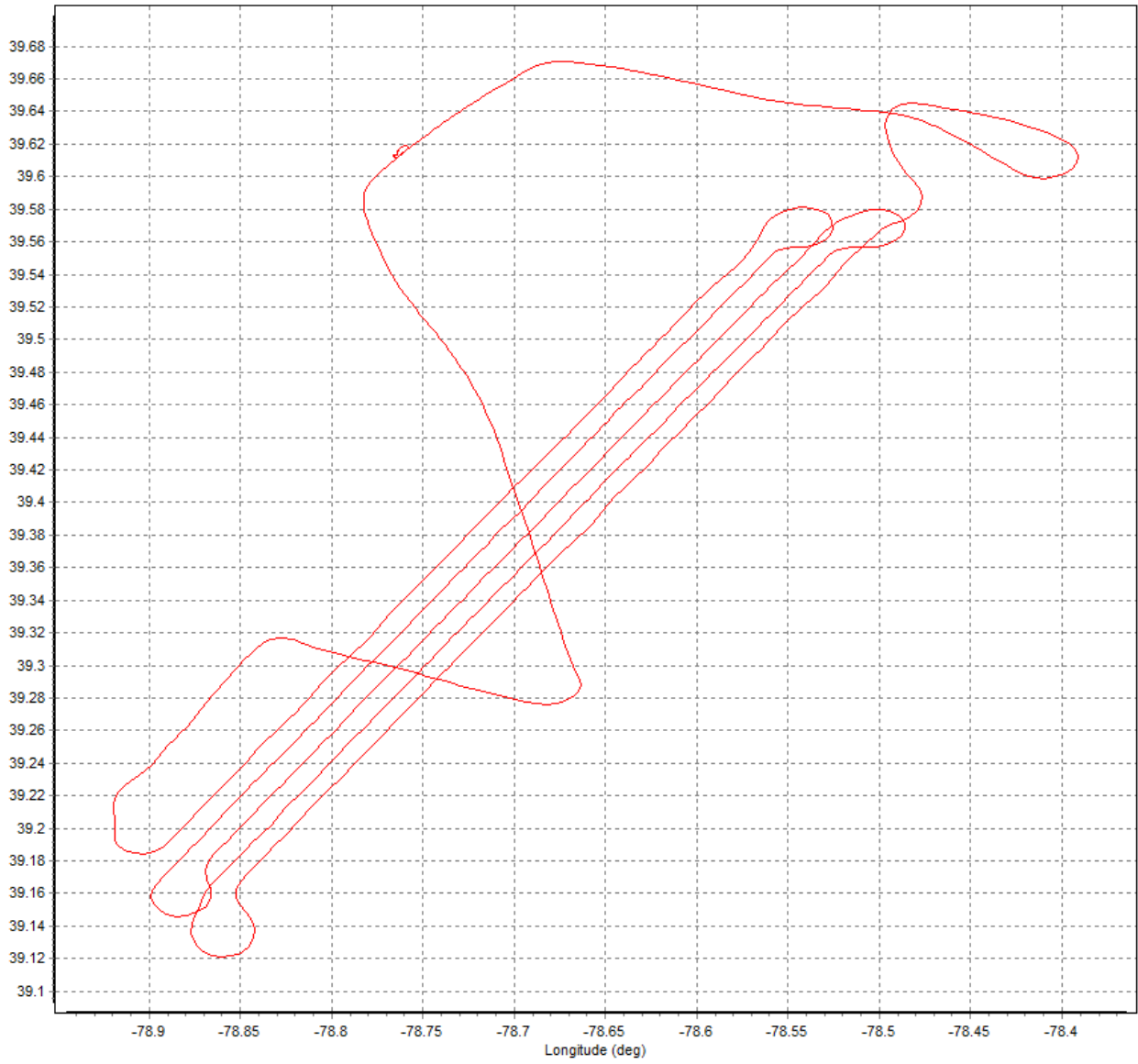
**z gyro bias (deg/hr)**



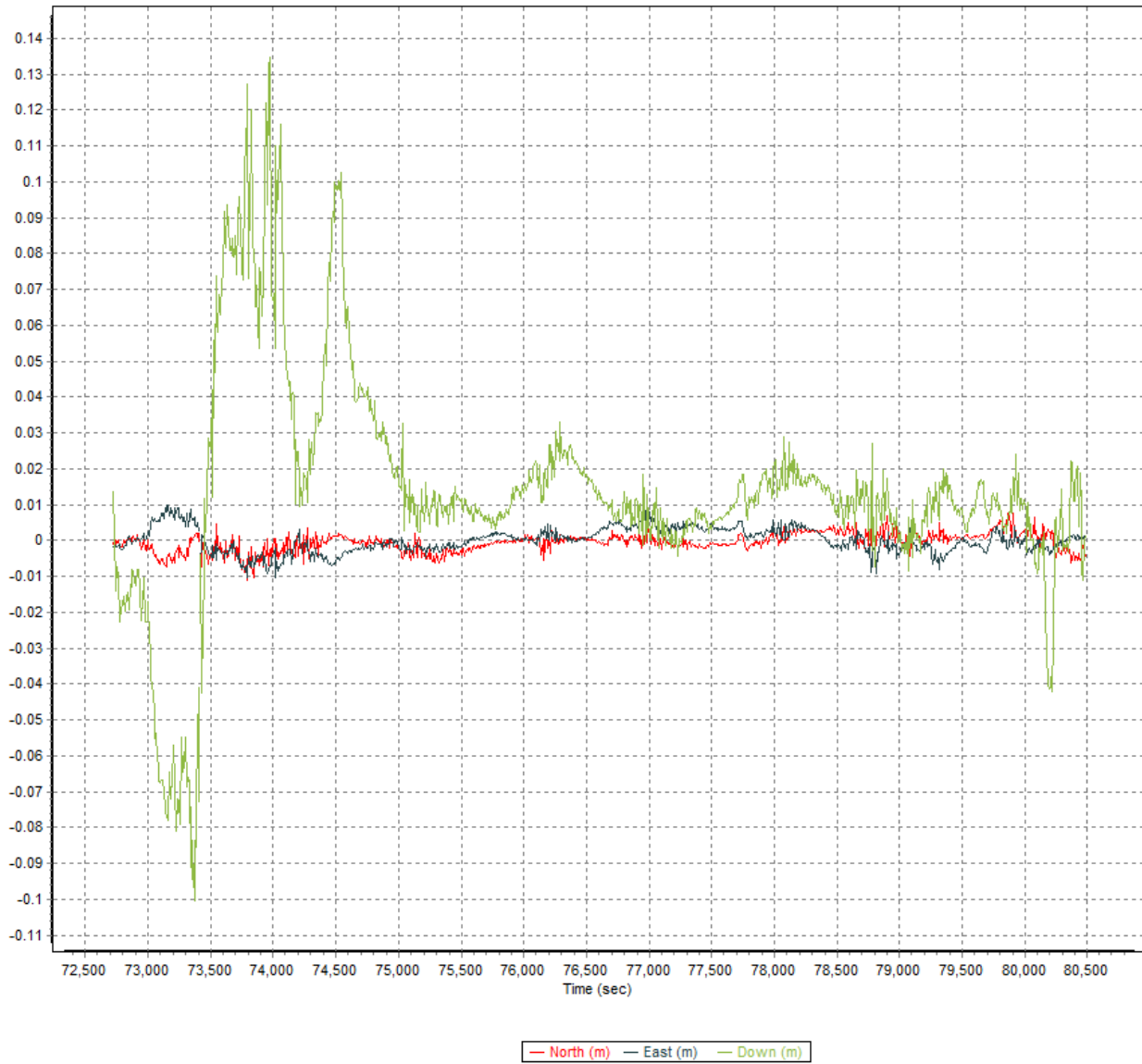
**z gyro scale error (ppm)**



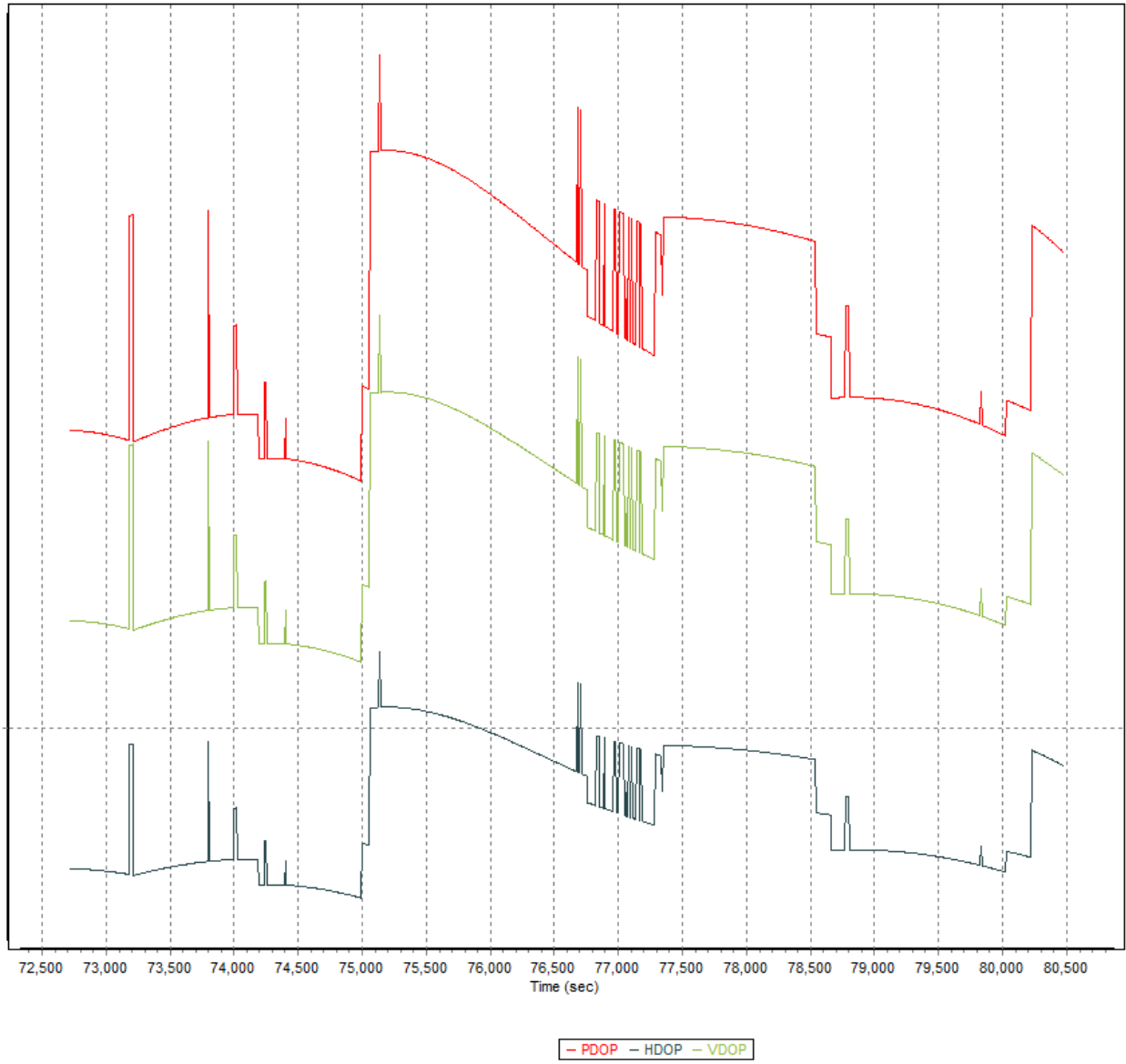
Top View: Latitude (deg)



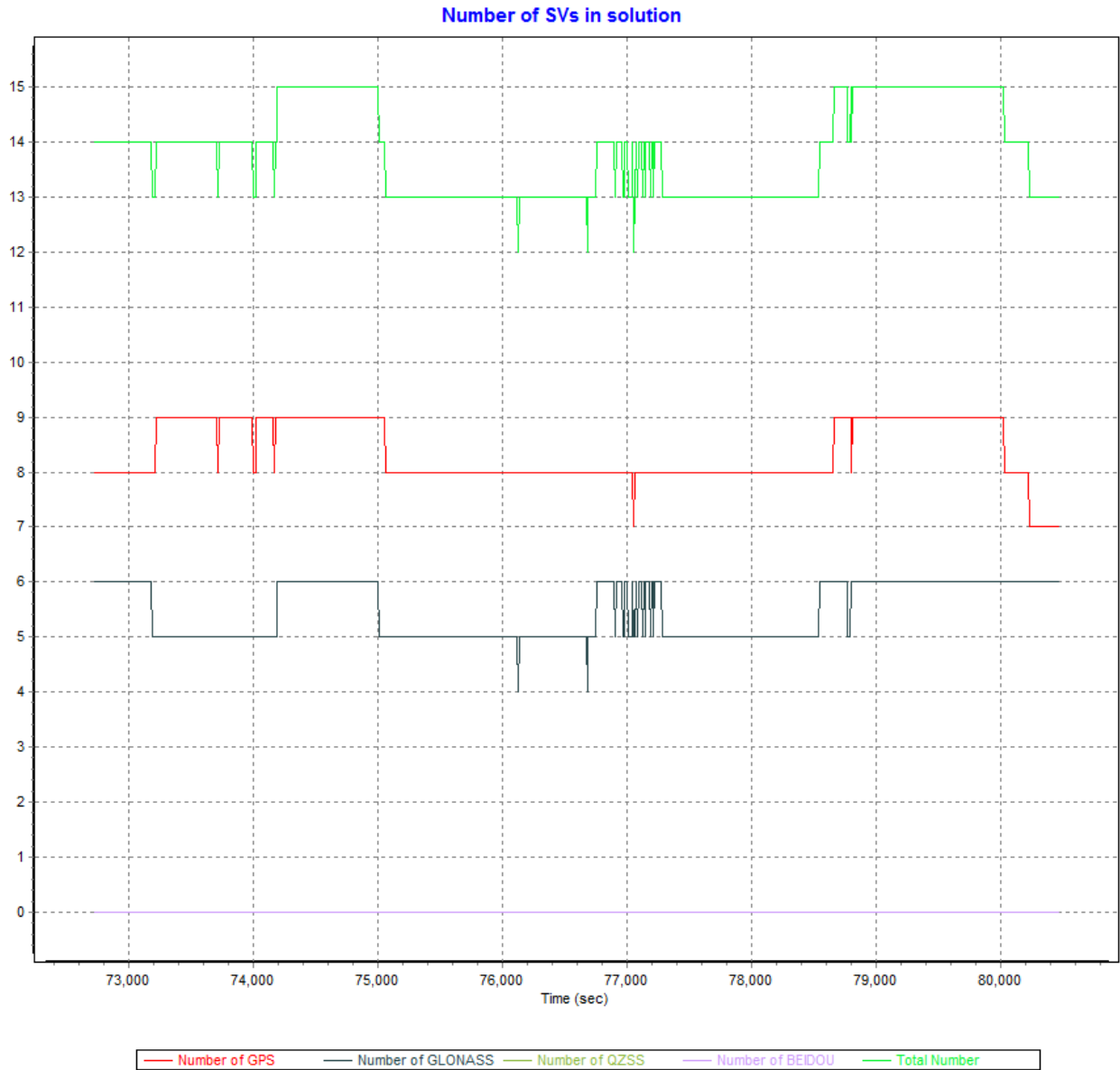
### Forward/Reverse Separation



DOP







### Processing Summary Information

Program: POSPac MMS  
 Version: 7.2.5934.15637  
 Project: \\sa\data\216027\20161106\_WV\_B

Solution Type:           IN-Fusion SmartBase

Fixed: 7780               (99.99%)  
 Float: 0                 (0.0%)  
 No Solution: 1           (0.01%)

Number of Epochs:

Total in RAW file: 7783  
 No processed position: 1

Fwd/Rev Separation RMS Values (m):

East: 0.003  
North: 0.003  
Height: 0.034

Fwd/Rev Sep. RMS for 25%-75% weighting (m): 3891 occurrences

East: 0.003  
North: 0.002  
Height: 0.016

Position Standard Deviation Percentages:

0.00 - 0.10 m: 100.0 %  
0.10 - 0.30 m: 0.0 %  
0.30 - 1.00 m: 0.0 %  
1.00 - 5.00 m: 0.0 %  
5.00 m + over: 0.0 %

Percentages of epochs with DD\_DOP over 10.00: 0 %

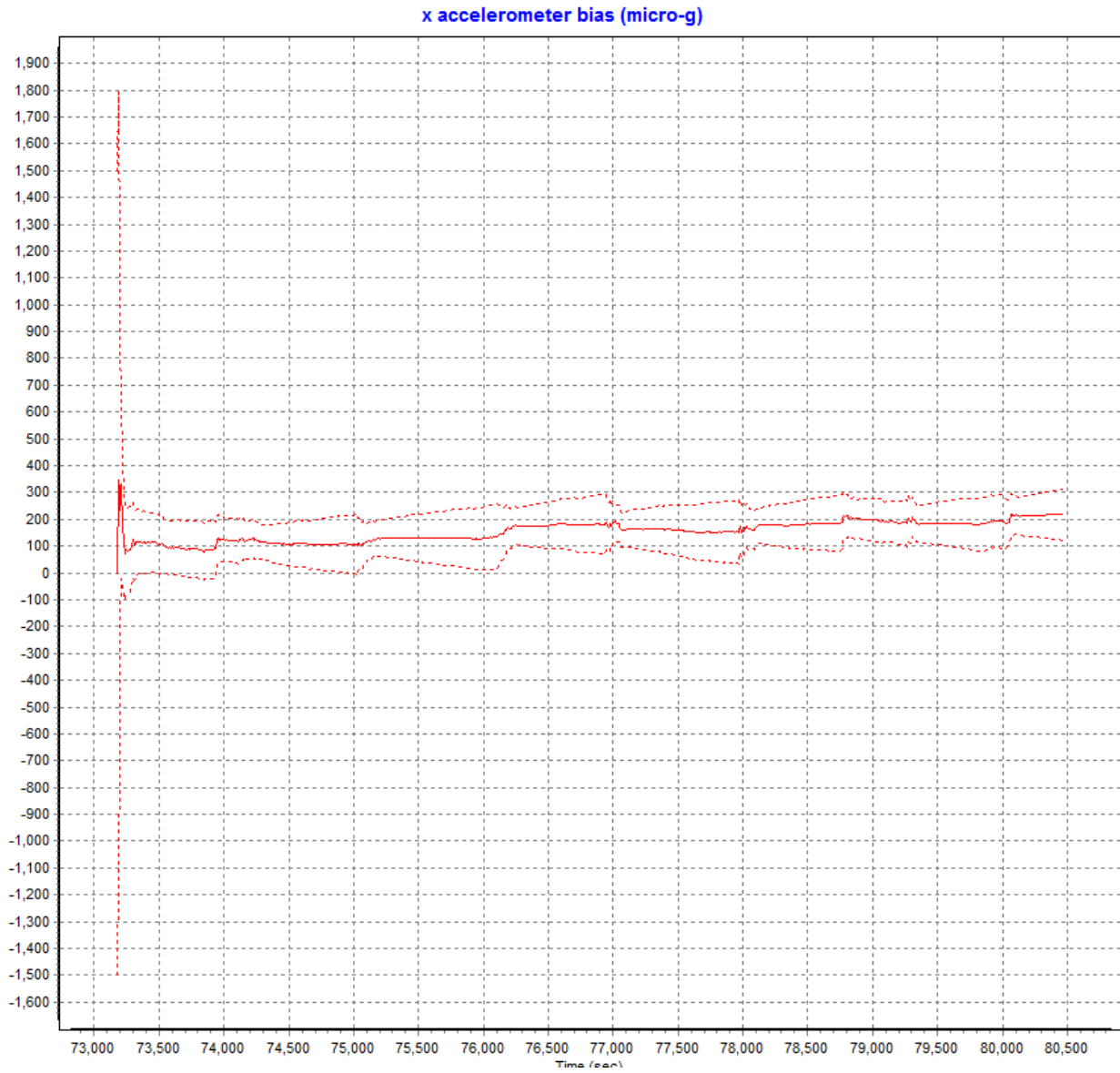
DOP over Tol: 1.55 %

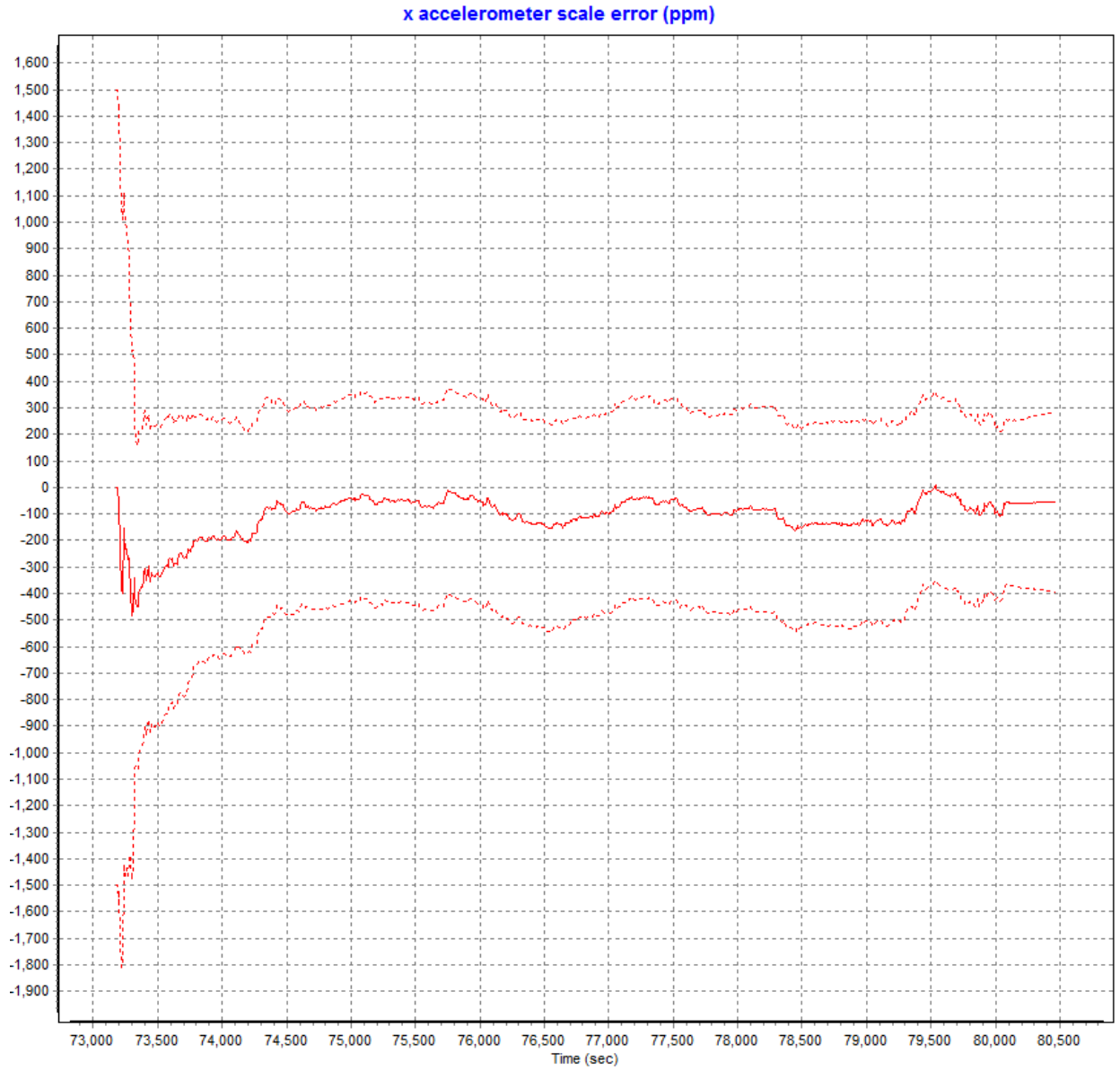
Baseline Distances (km):

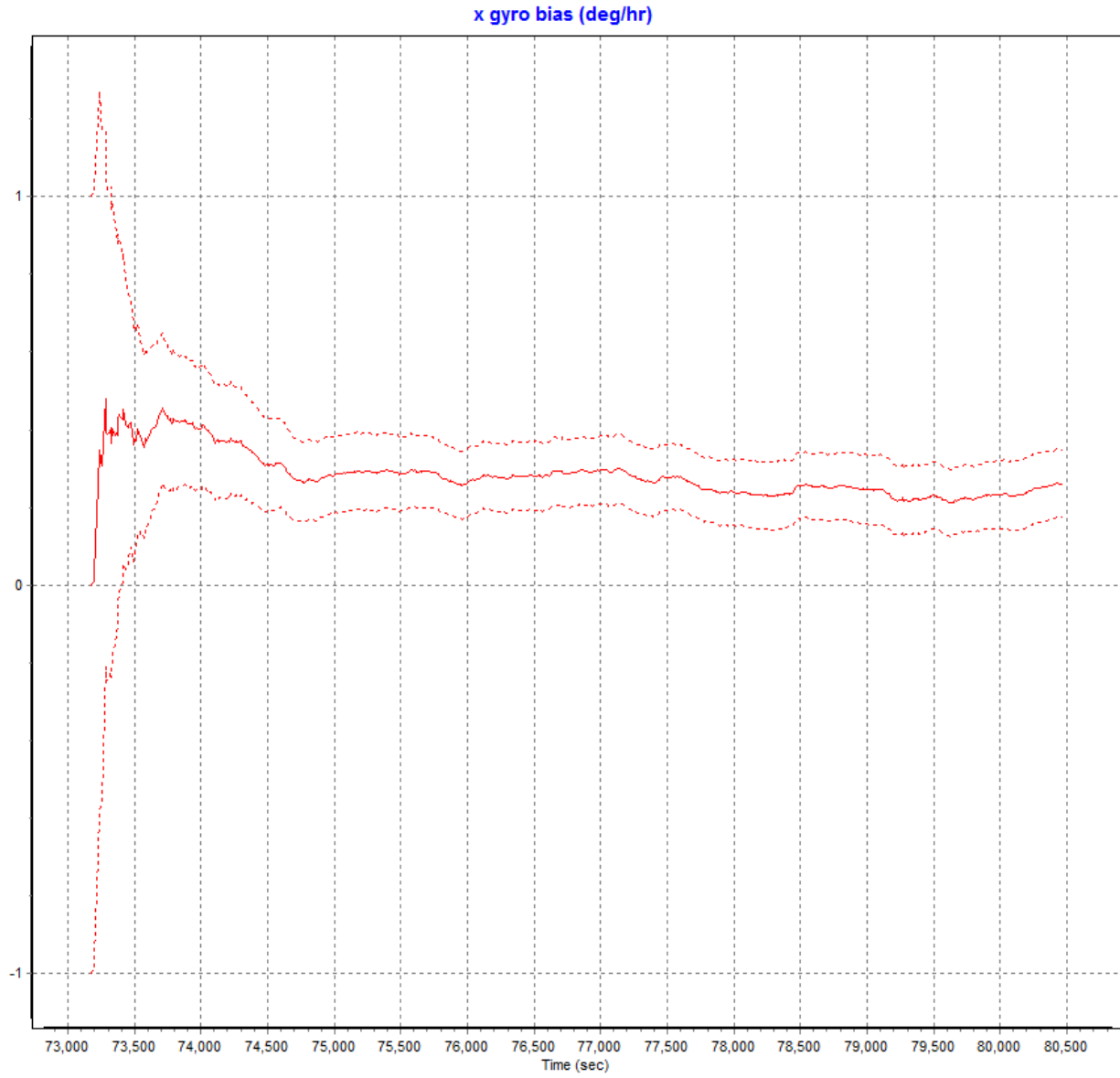
Maximum: 37.56  
Minimum: 0.40  
Average: 18.39  
First Epoch: 41.122  
Last Epoch: 49.715

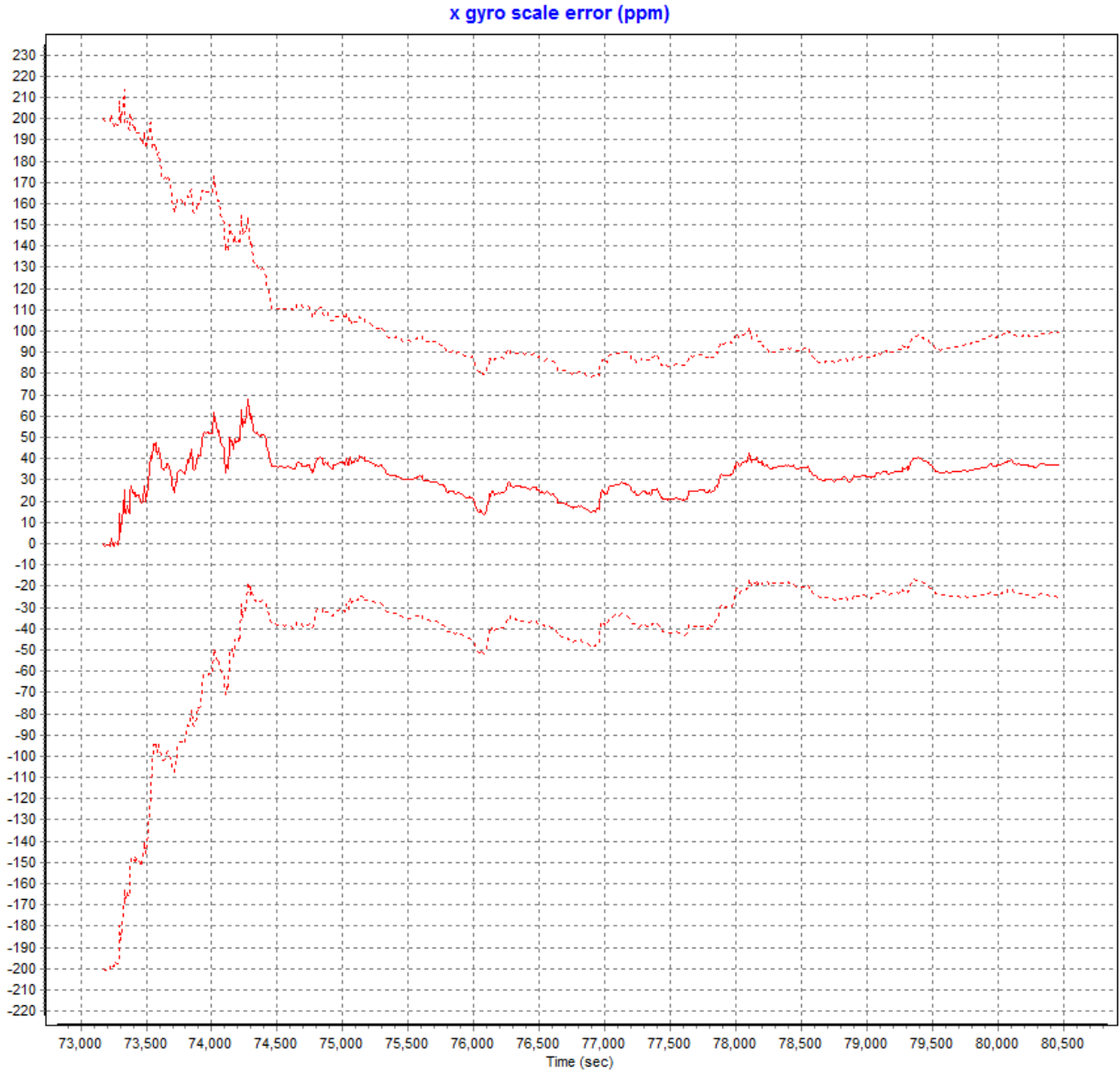
**CORS Base Stations**

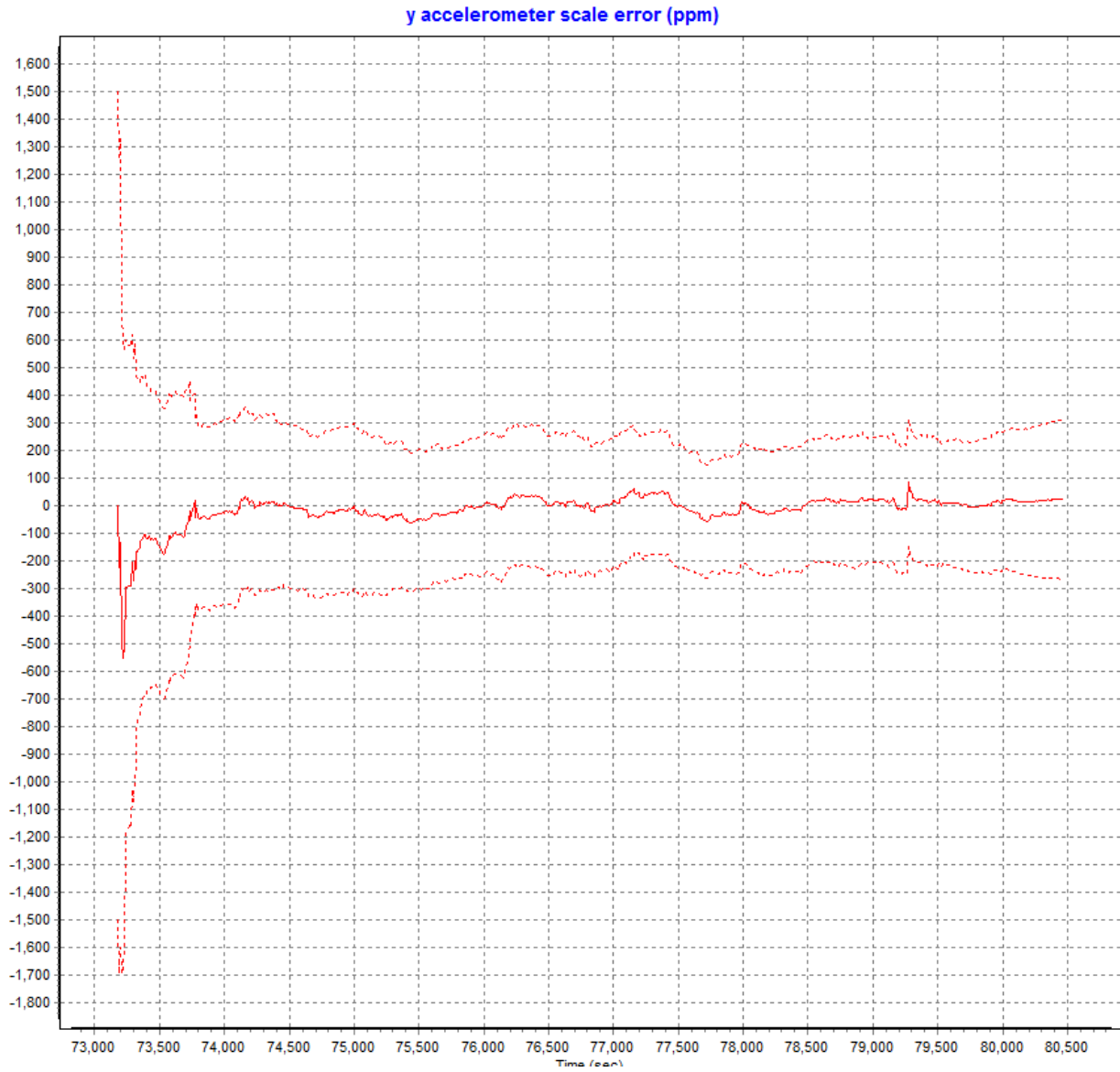
Station	Original			Adjusted		
	Latitude	Longitude	Altitude	Latitude	Longitude	Altitude
LOYC	N39°07'12.57602"	W78°12'02.63238"	201.826	N39°07'12.57544"	W78°12'02.63144"	201.856
ZDC1	N39°06'05.74451"	W77°32'33.88932"	79.596	N39°06'05.74447"	W77°32'33.88903"	79.621
WVNR	N38°53'44.53445"	W79°51'30.29434"	581.501	N38°53'44.53432"	W79°51'30.29412"	581.512
WVMF	N39°04'32.37373"	W78°55'57.02160"	312.272	N39°04'32.37371"	W78°55'57.02131"	312.287
WVGB	N38°25'48.45398"	W79°49'01.31917"	811.181	N38°25'48.45359"	W79°49'01.31894"	811.193
WVCV	N39°00'55.10519"	W79°27'25.03347"	967.96	N39°00'55.10446"	W79°27'25.03231"	967.977
WVBU	N39°20'16.85129"	W78°54'48.61063"	198.787	N39°20'16.85114"	W78°54'48.61041"	198.805
WVBR	N39°18'28.91342"	W80°16'38.64393"	268.986	N39°18'28.91322"	W80°16'38.64379"	269.011
PAWG	N40°18'19.27228"	W79°30'22.40231"	334.927	N40°18'19.27207"	W79°30'22.40203"	334.946
PAII	N40°36'20.27853"	W79°11'09.35328"	377.906	N40°36'20.27845"	W79°11'09.35327"	377.921
PAGW	N39°53'56.14859"	W80°09'36.40312"	262.754	N39°53'56.14770"	W80°09'36.40177"	262.763
PAFU	N39°55'35.71864"	W79°41'50.53507"	326.747	N39°55'35.71847"	W79°41'50.53489"	326.774
PAFC	N39°56'49.44385"	W77°40'11.19016"	175.871	N39°56'49.44369"	W77°40'11.19037"	175.871
LWX1	N38°58'21.66394"	W77°29'18.98431"	60.728	N38°58'21.66376"	W77°29'18.98437"	60.759
LOYY	N38°53'18.57661"	W78°29'56.96629"	220.904	N38°53'18.57659"	W78°29'56.96610"	220.928
LOYS	N39°38'46.42051"	W78°43'47.92090"	168.093	N39°38'46.42051"	W78°43'47.92090"	168.093
LOYQ	N39°38'02.62363"	W77°42'51.12034"	127.23	N39°38'02.62378"	W77°42'51.12025"	127.223
LOYJ	N38°28'20.92222"	W78°00'36.16886"	103.853	N38°28'20.92221"	W78°00'36.16830"	103.867
ALLG	N39°39'13.91860"	W78°43'50.52686"	174.48	N39°39'13.91853"	W78°43'50.52674"	174.511





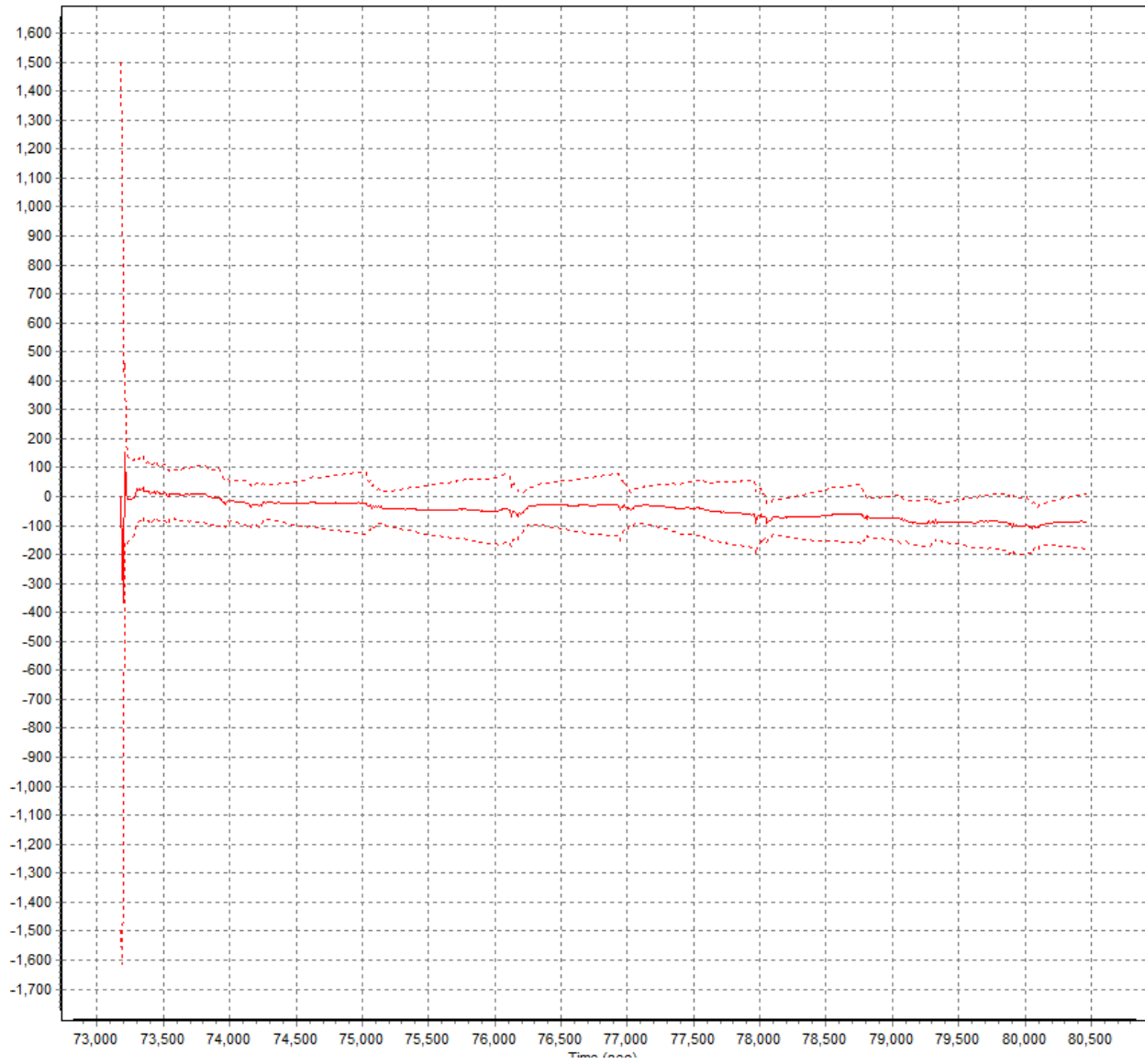


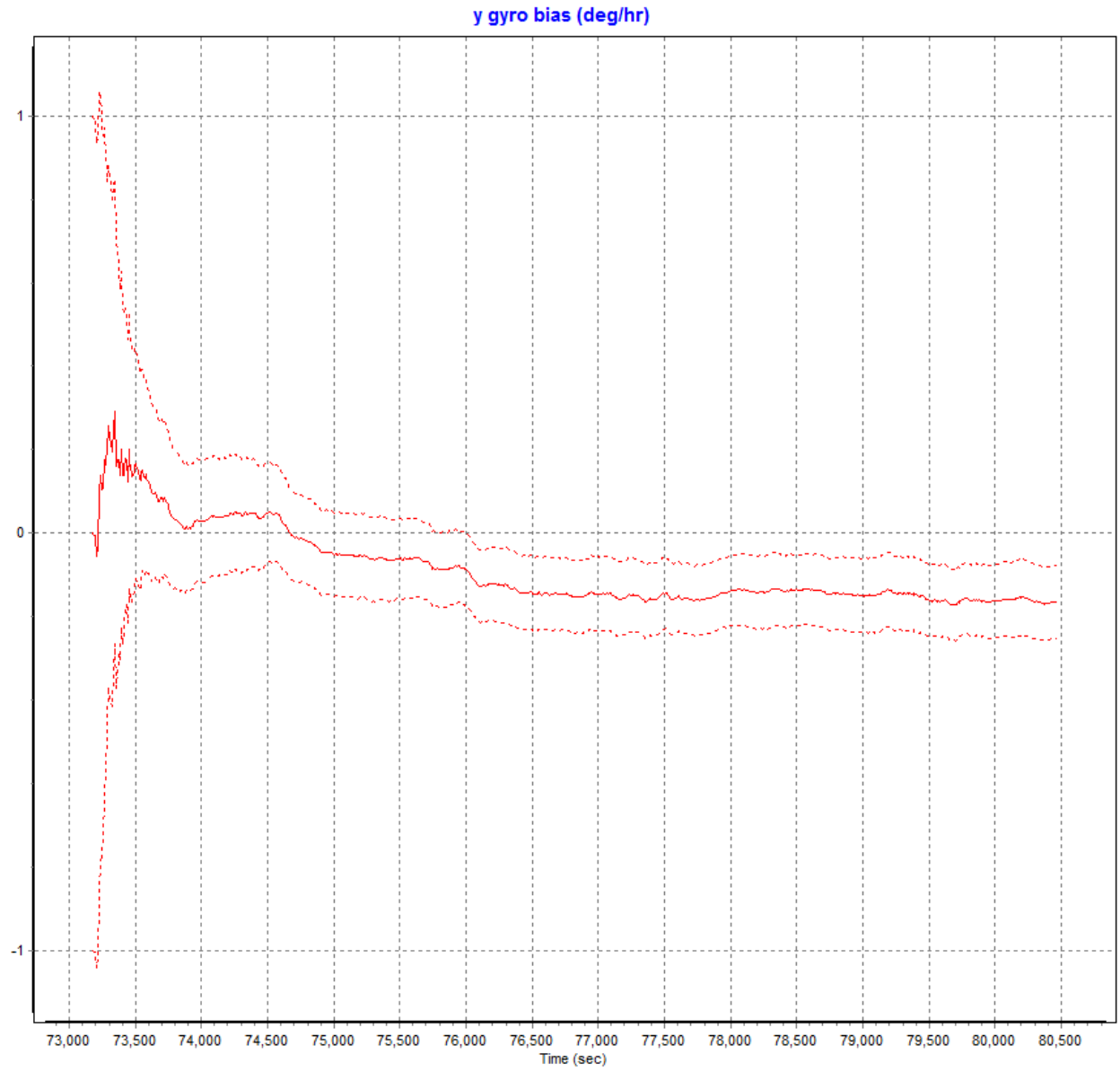


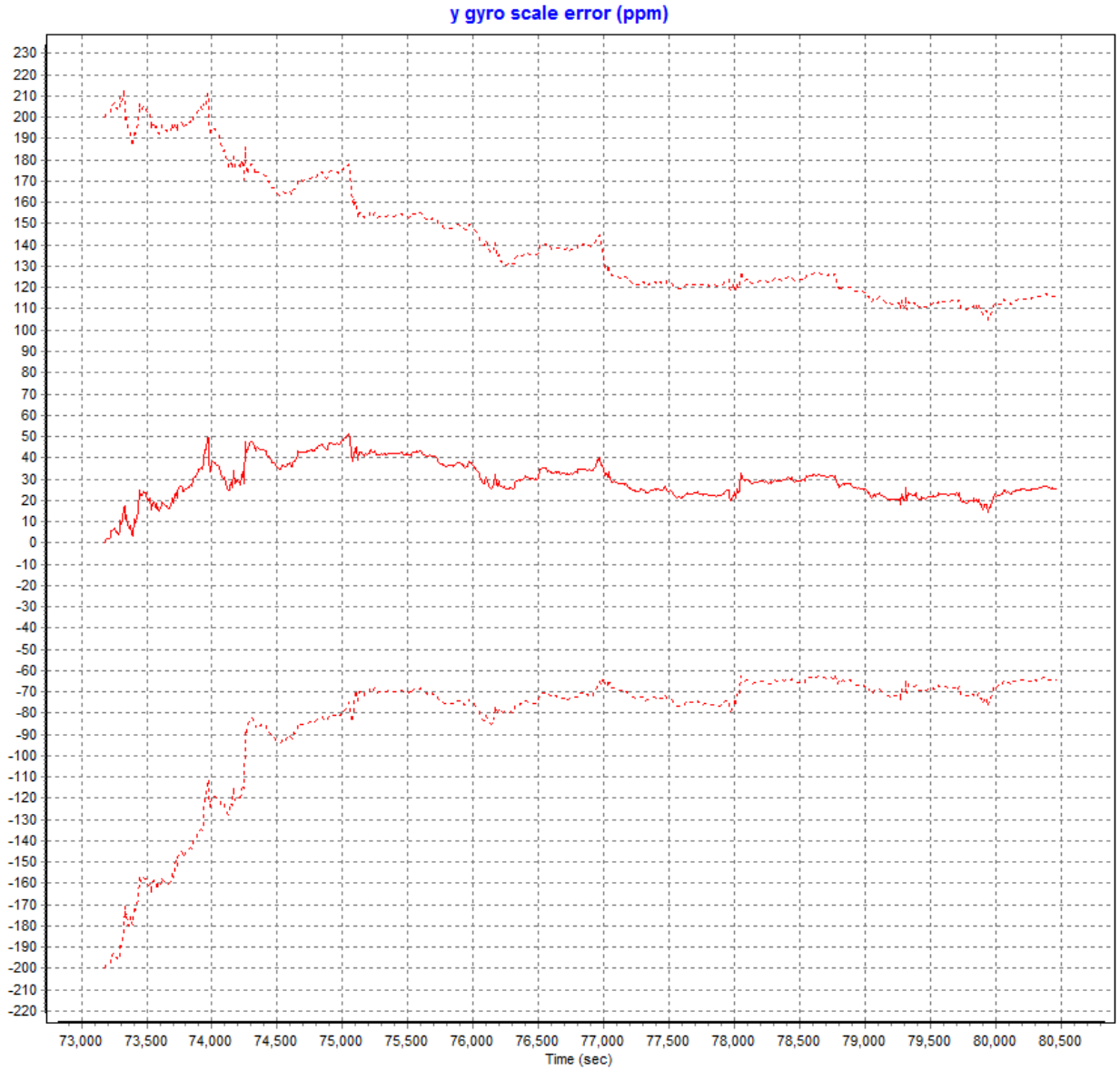


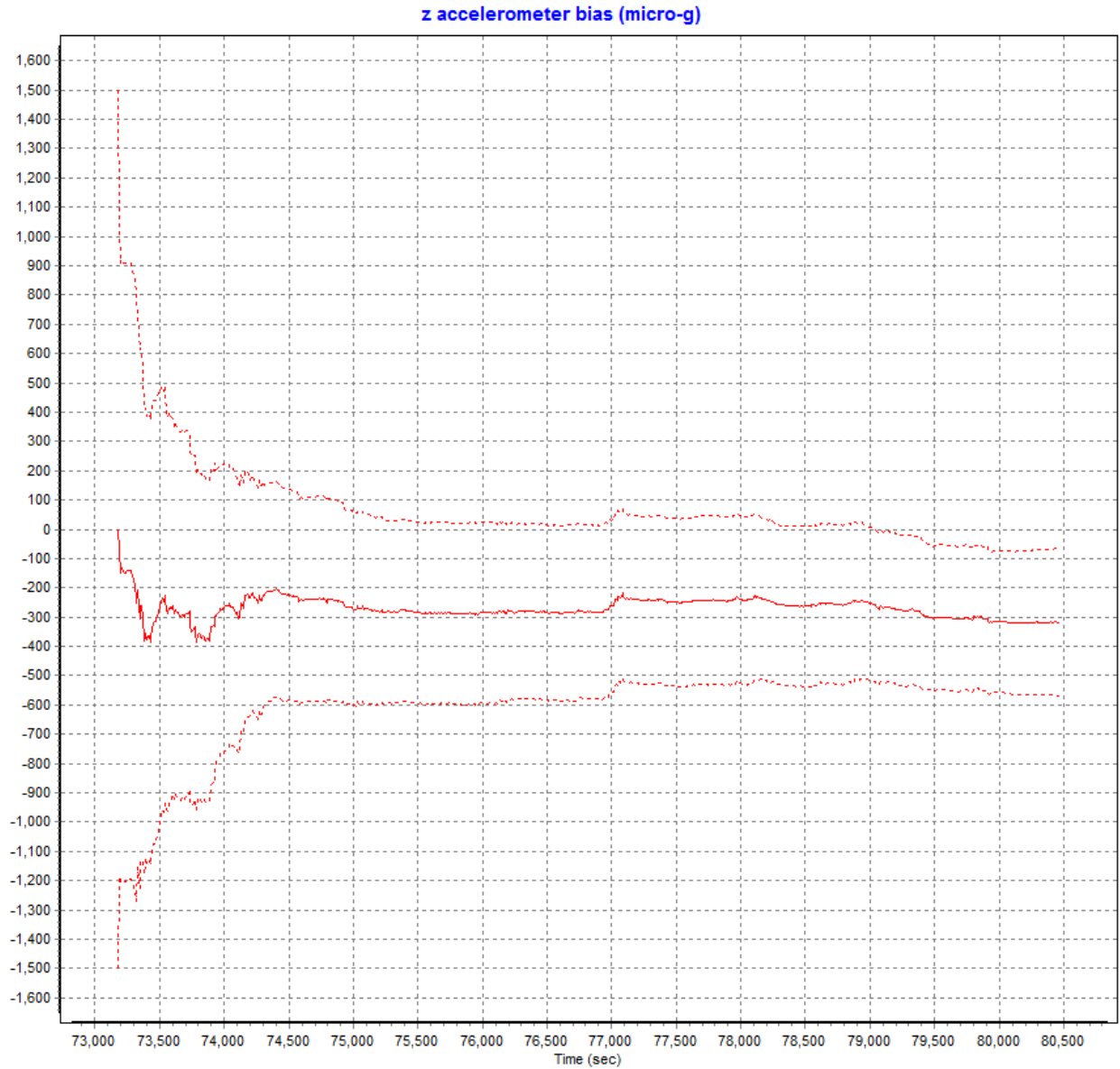


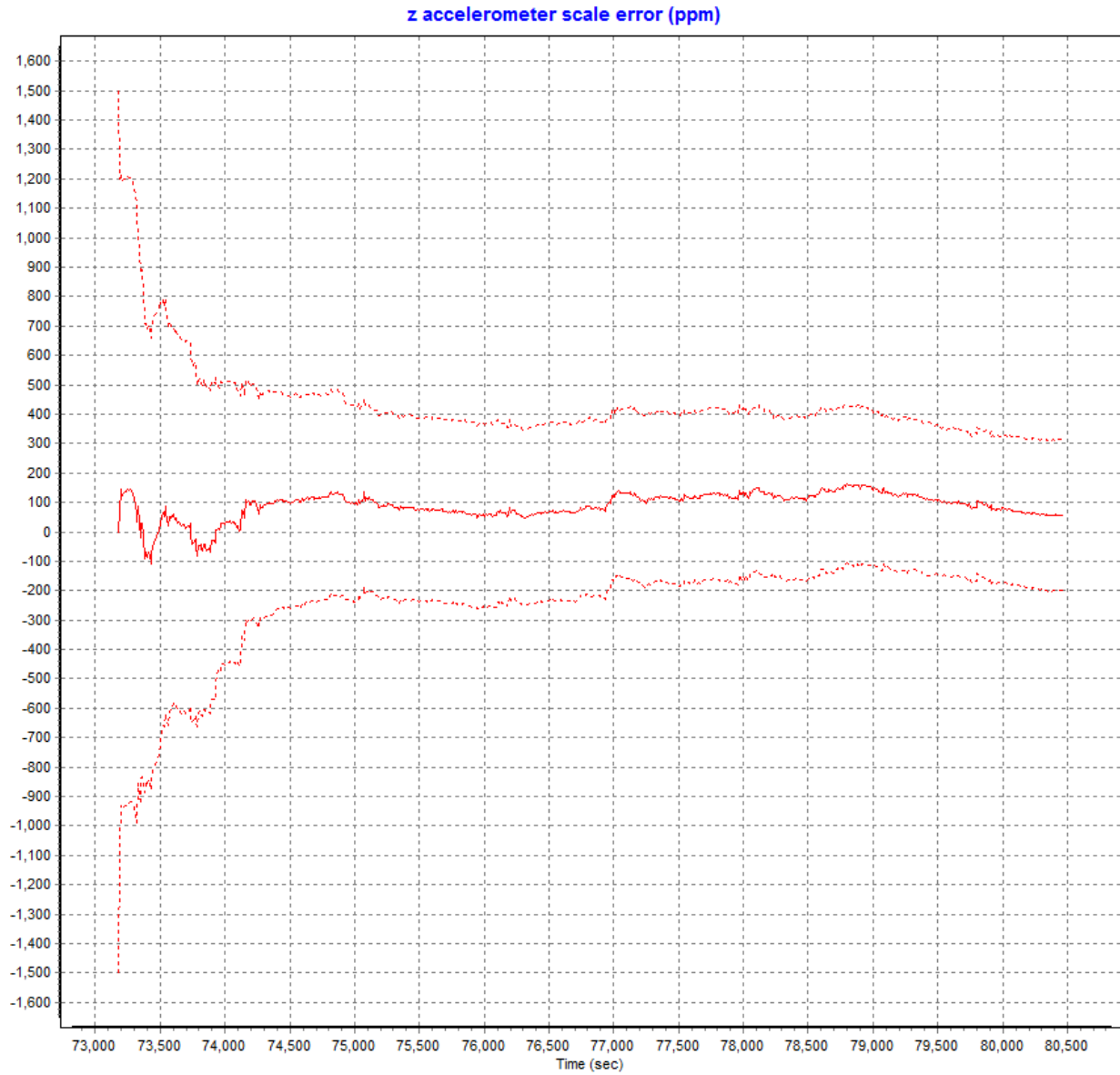
y accelerometer bias (micro-g)

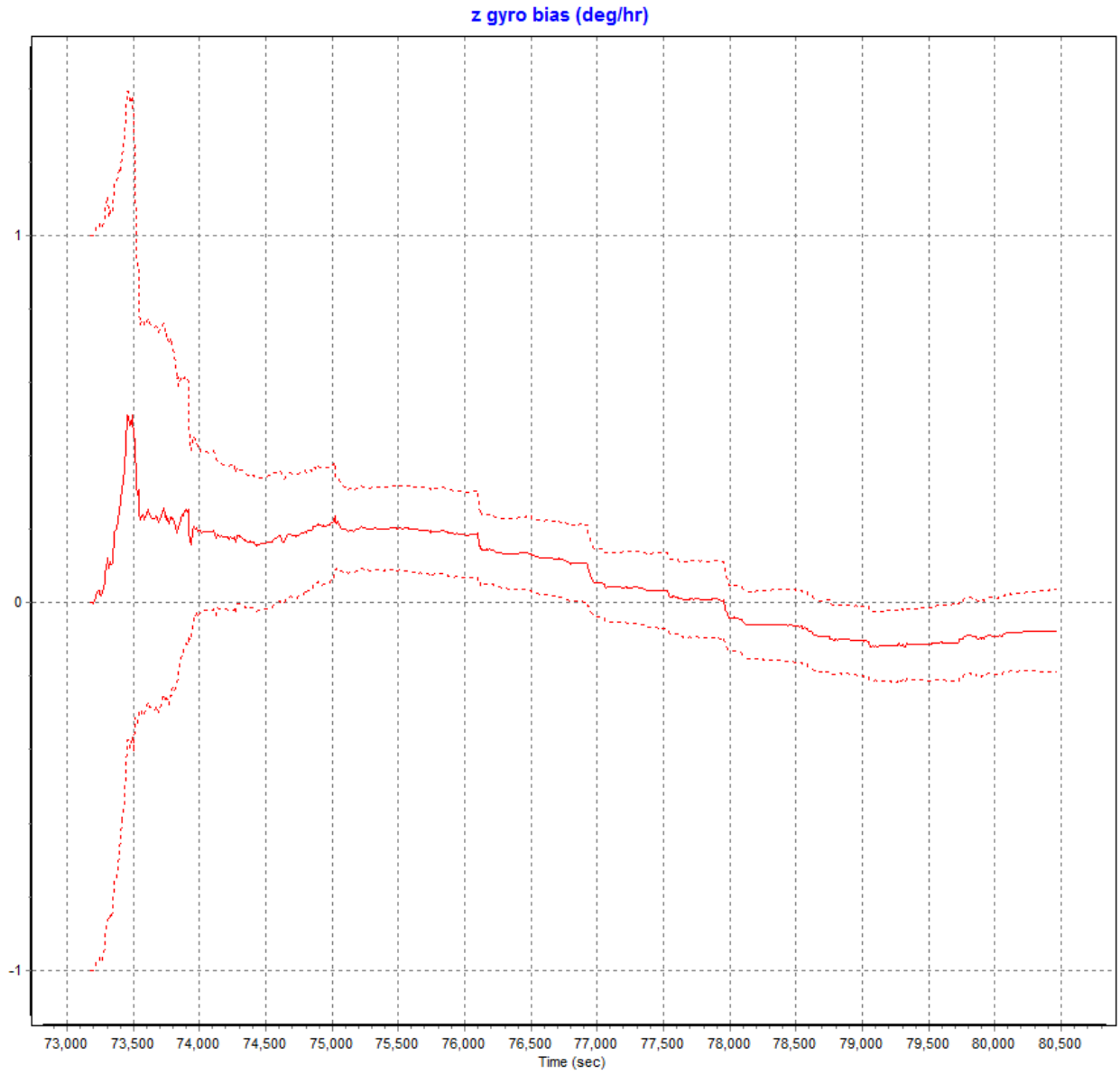


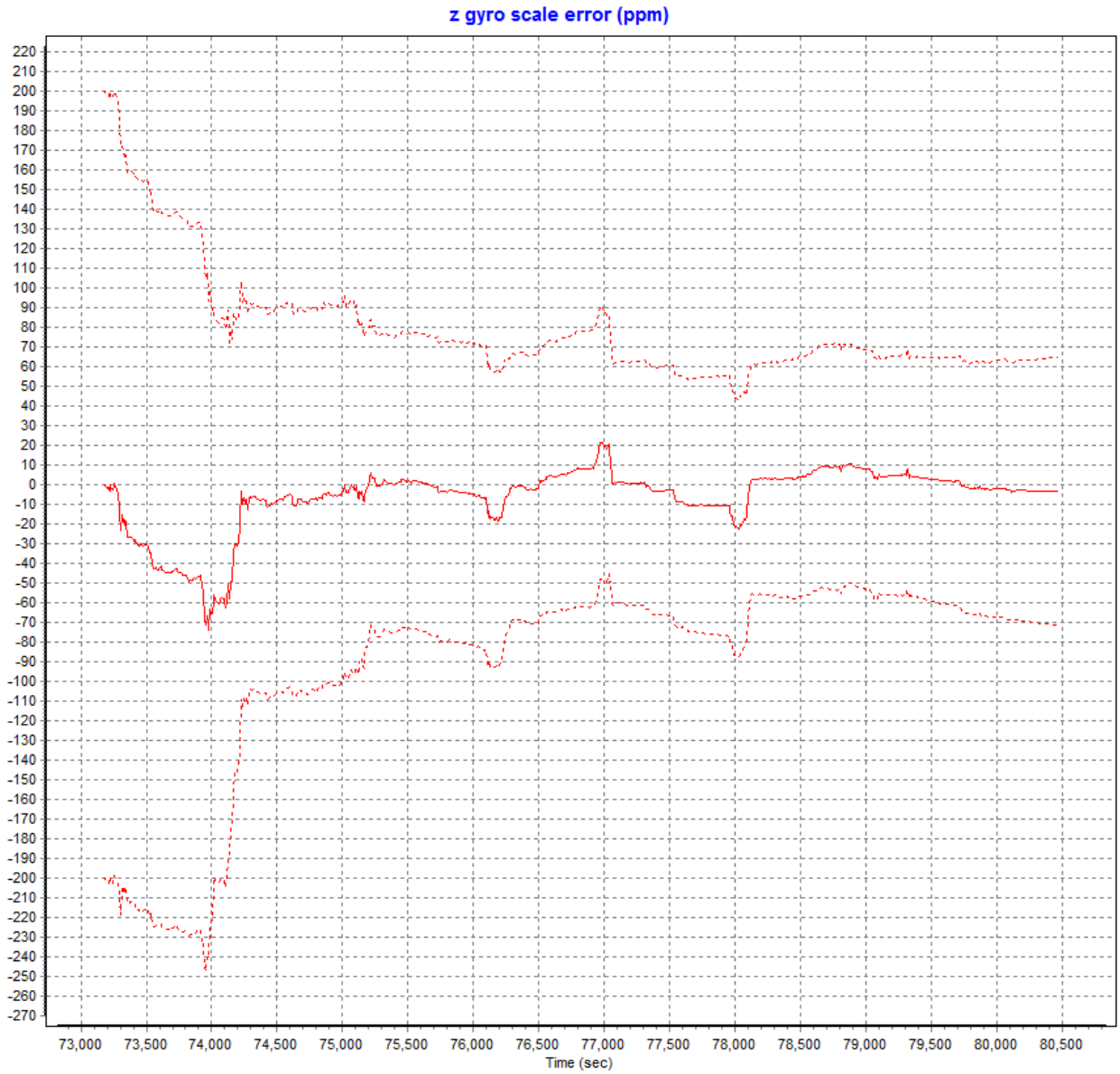




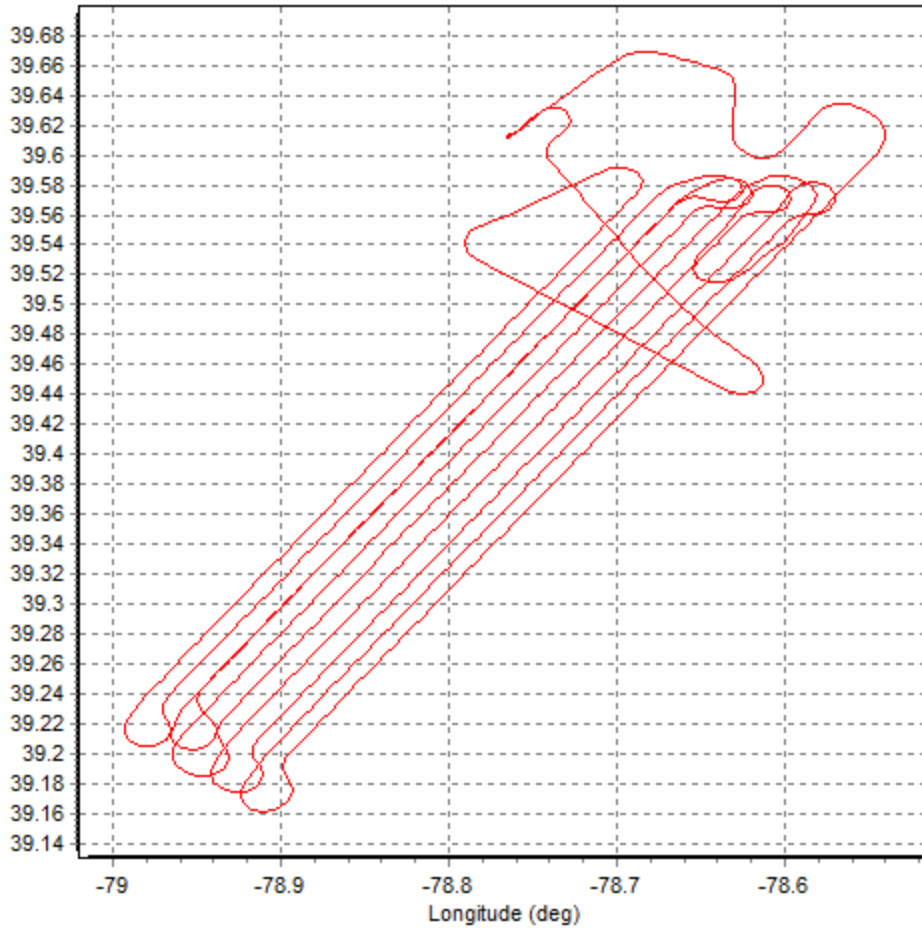






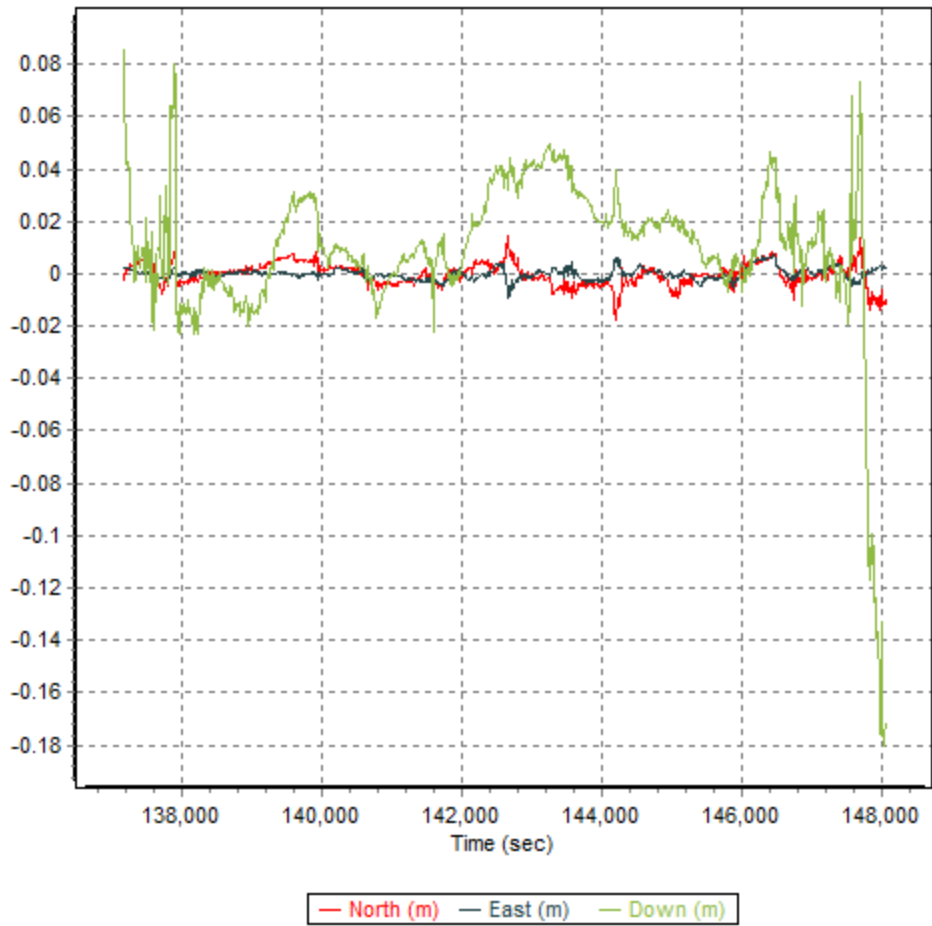


### Top View: Latitude (deg)

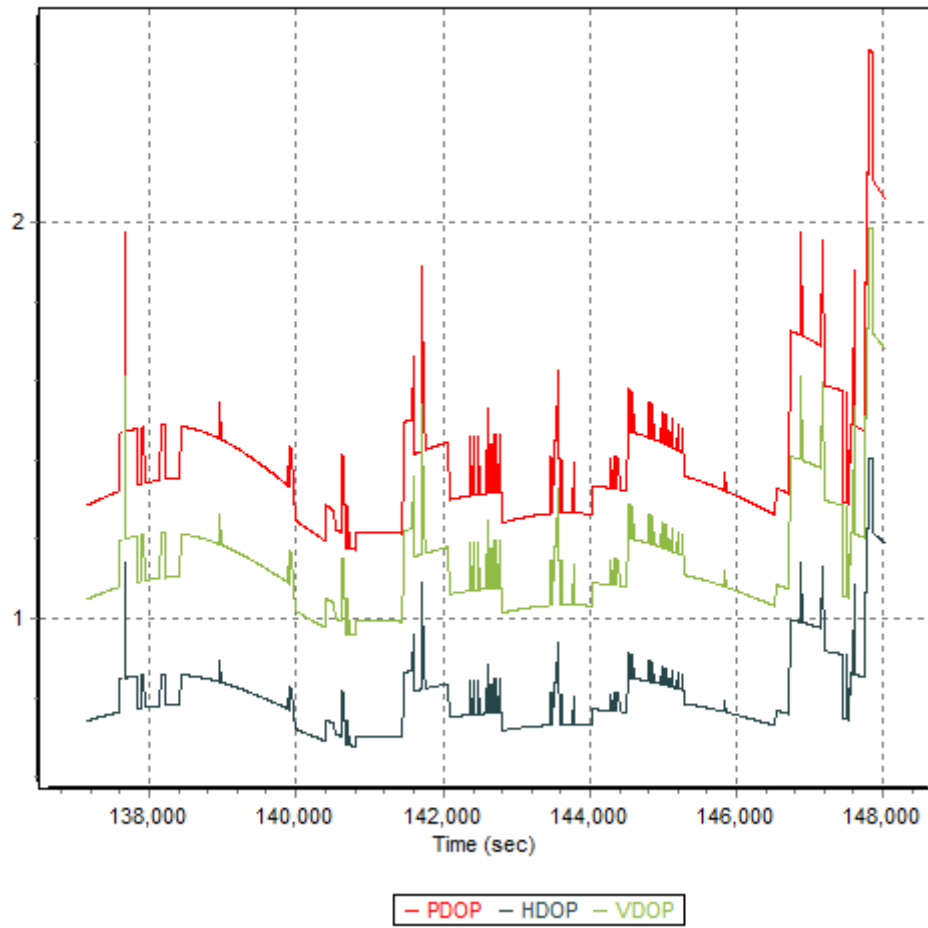


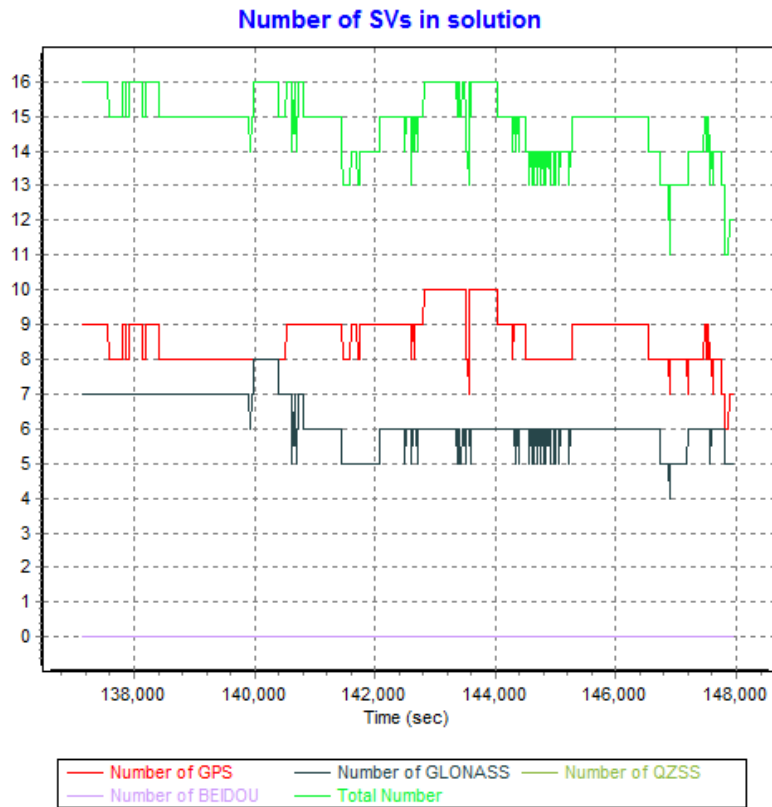


### Forward/Reverse Separation



### DOP





### Processing Summary Information

Program: POSPac MMS  
Version: 7.2.5934.15637  
Project: \\sa\data\216027\20161107\_WV\_A

Solution Type: IN-Fusion SmartBase

Fixed: 10852 (99.99%)  
Float: 0 (0.0%)  
No Solution: 1 (0.01%)

Number of Epochs:

Total in RAW file: 10925  
No processed position: 73

Fwd/Rev Separation RMS Values (m):

East: 0.003  
North: 0.005  
Height: 0.035

Fwd/Rev Sep. RMS for 25%-75% weighting (m): 5463 occurrences

East: 0.003  
North: 0.004  
Height: 0.019

Position Standard Deviation Percentages:

0.00 - 0.10 m: 0.0 %  
 0.10 - 0.30 m: 0.0 %  
 0.30 - 1.00 m: 66.7 %  
 1.00 - 5.00 m: 33.3 %  
 5.00 m + over: 0.0 %

Percentages of epochs with DD\_DOP over 10.00: 0 %

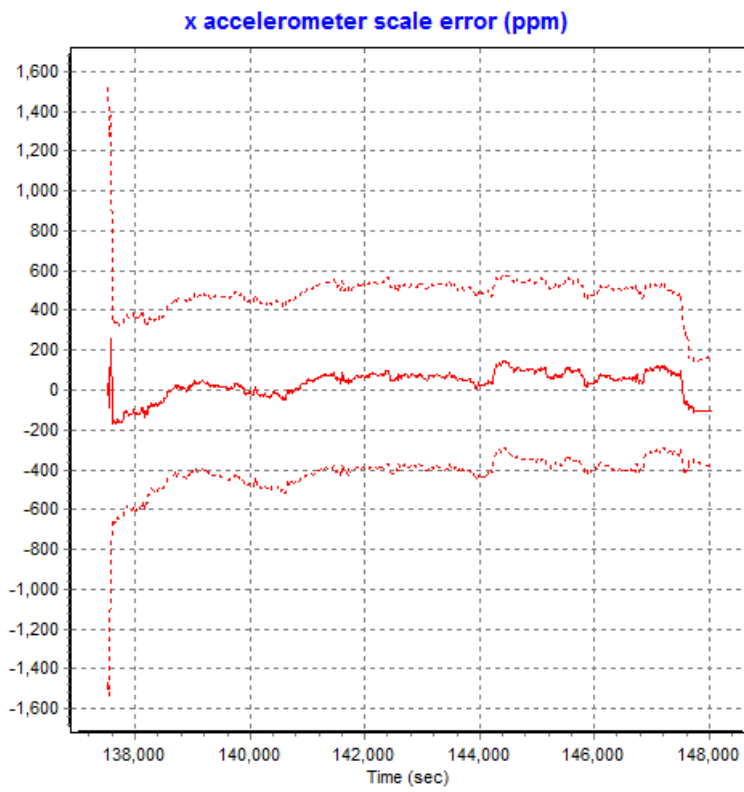
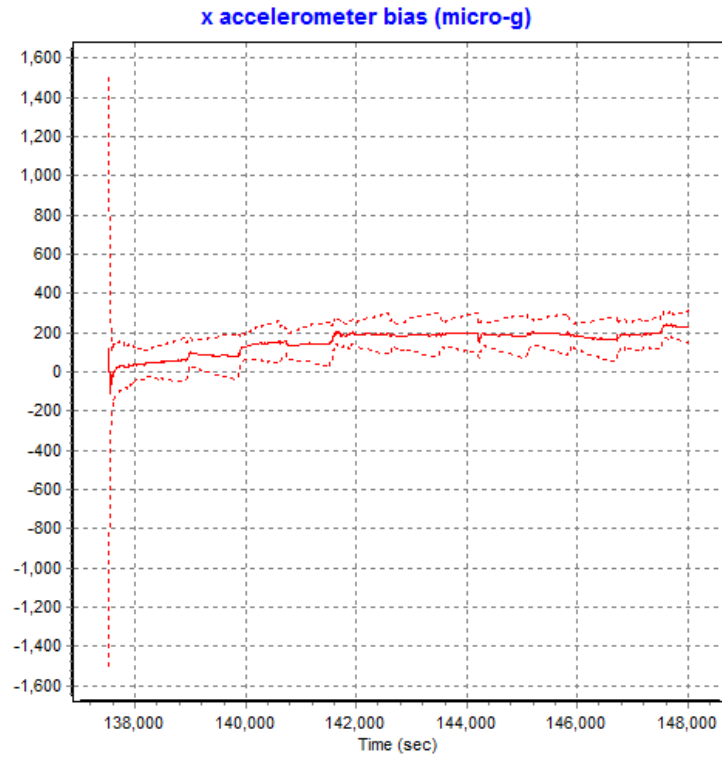
DOP over Tol: 1.38 %

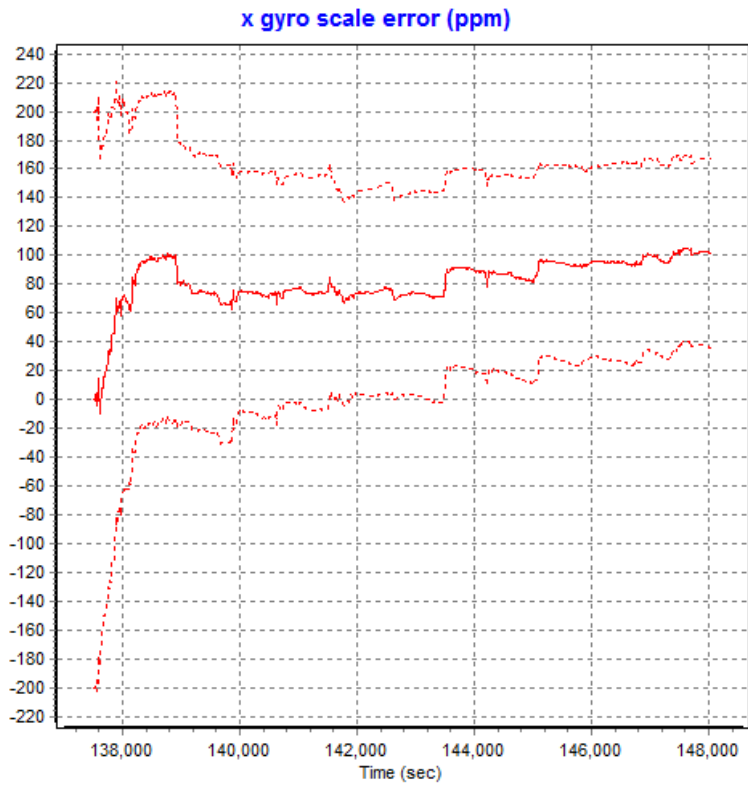
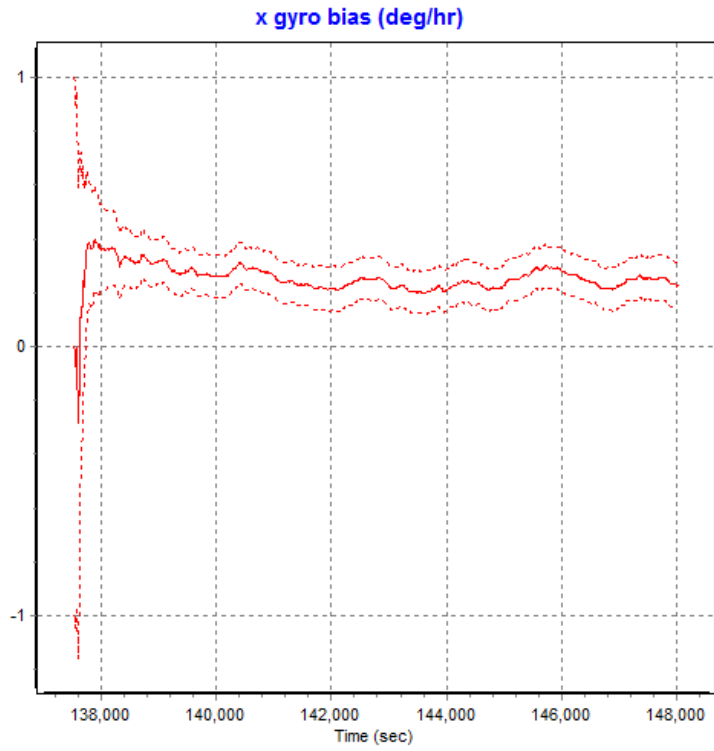
Baseline Distances (km):

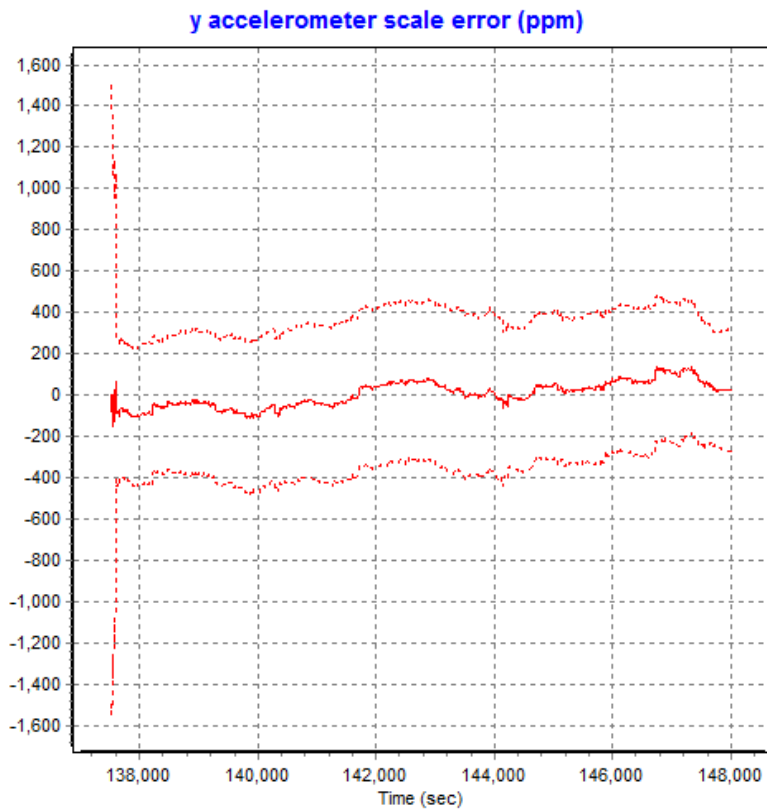
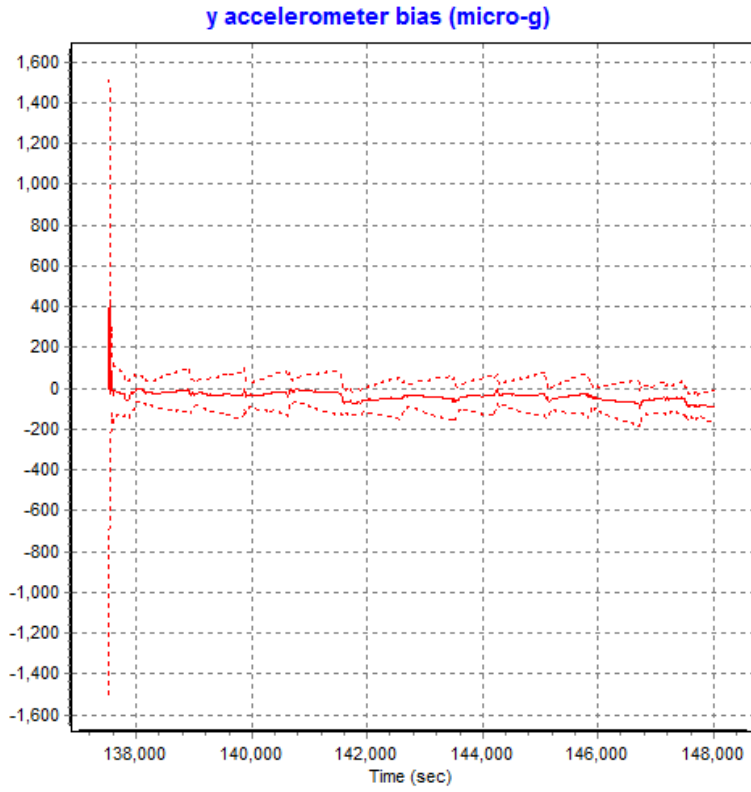
Maximum: 33.08  
 Minimum: 0.39  
 Average: 15.78  
 First Epoch: 19.65  
 Last Epoch: 19.90

**CORS Base Stations**

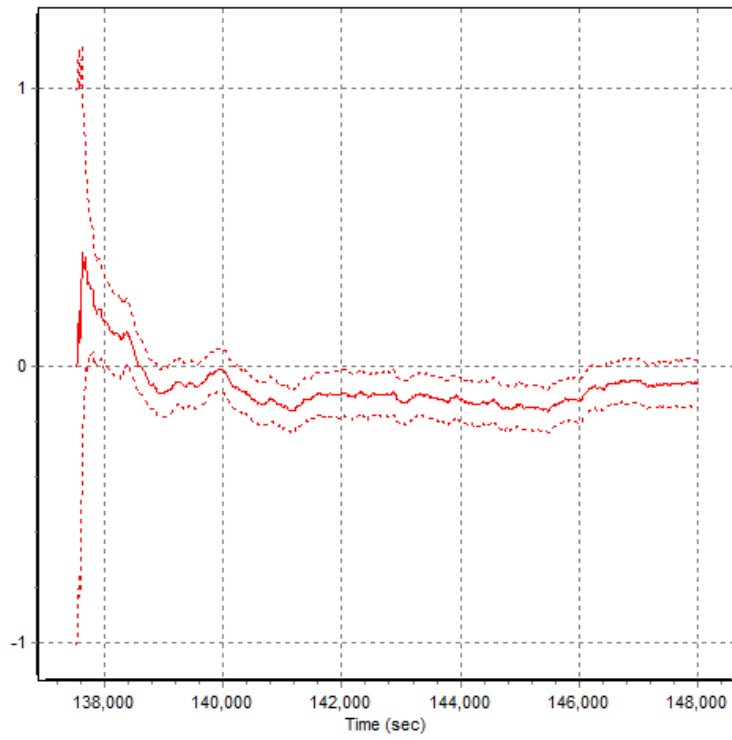
Station	Original			Adjusted		
	Latitude	Longitude	Altitude	Latitude	Longitude	Altitude
WVBU	N39°20'16.85145"	W78°54'48.61118"	198.793	N39°20'16.85117"	W78°54'48.61061"	198.803
ZDC1	N39°06'05.74451"	W77°32'33.88932"	79.596	N39°06'05.74448"	W77°32'33.88925"	79.625
WVNR	N38°53'44.53445"	W79°51'30.29434"	581.501	N38°53'44.53433"	W79°51'30.29426"	581.513
WVMF	N39°04'32.37373"	W78°55'57.02160"	312.272	N39°04'32.37373"	W78°55'57.02150"	312.289
WVGB	N38°25'48.45398"	W79°49'01.31917"	811.181	N38°25'48.45360"	W79°49'01.31910"	811.194
WVCV	N39°00'55.10519"	W79°27'25.03347"	967.96	N39°00'55.10447"	W79°27'25.03249"	967.972
WVBR	N39°18'28.91342"	W80°16'38.64393"	268.986	N39°18'28.91324"	W80°16'38.64409"	269.008
PAWG	N40°18'19.27228"	W79°30'22.40231"	334.927	N40°18'19.27212"	W79°30'22.40235"	334.951
PAII	N40°36'20.27853"	W79°11'09.35328"	377.906	N40°36'20.27846"	W79°11'09.35341"	377.924
PAGW	N39°53'56.14859"	W80°09'36.40312"	262.754	N39°53'56.14770"	W80°09'36.40199"	262.771
PAFU	N39°55'35.71864"	W79°41'50.53508"	326.747	N39°55'35.71848"	W79°41'50.53509"	326.778
PAFM	N39°57'44.94246"	W77°58'43.64065"	285.509	N39°57'44.94235"	W77°58'43.64079"	285.514
PAFC	N39°56'49.44385"	W77°40'11.19016"	175.871	N39°56'49.44357"	W77°40'11.19044"	175.89
LWX1	N38°58'21.66394"	W77°29'18.98432"	60.728	N38°58'21.66382"	W77°29'18.98458"	60.758
LOYY	N38°53'18.57661"	W78°29'56.96629"	220.904	N38°53'18.57662"	W78°29'56.96625"	220.928
LOYS	N39°38'46.42051"	W78°43'47.92090"	168.093	N39°38'46.42051"	W78°43'47.92090"	168.093
LOYQ	N39°38'02.62363"	W77°42'51.12035"	127.23	N39°38'02.62378"	W77°42'51.12046"	127.226
LOYJ	N38°28'20.92222"	W78°00'36.16886"	103.853	N38°28'20.92222"	W78°00'36.16853"	103.87
LOYC	N39°07'12.57573"	W78°12'02.63164"	201.807	N39°07'12.57545"	W78°12'02.63172"	201.857
LOYA	N38°25'33.92918"	W78°53'21.79749"	363.919	N38°25'33.92908"	W78°53'21.79751"	363.976
ALLG	N39°39'13.91860"	W78°43'50.52686"	174.48	N39°39'13.91854"	W78°43'50.52680"	174.515



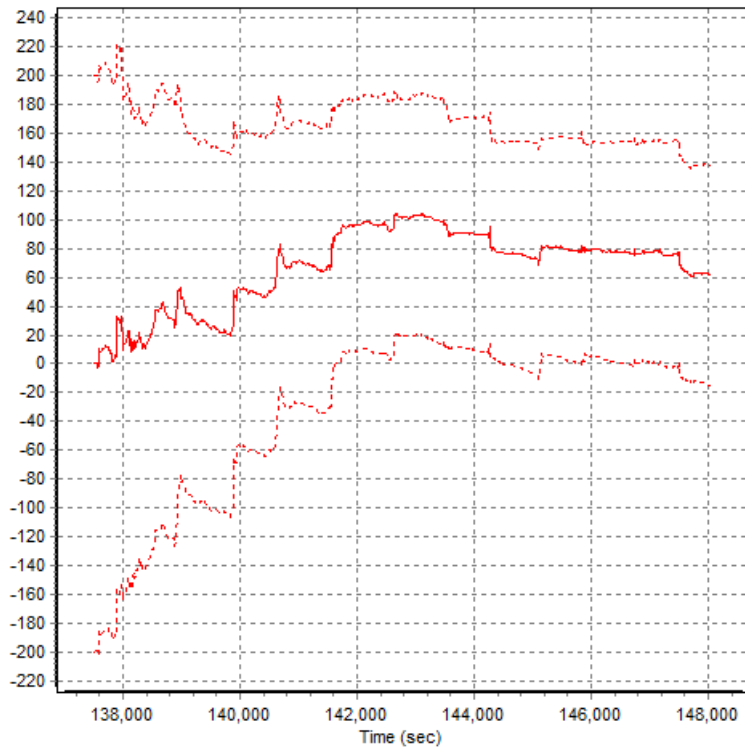




y gyro bias (deg/hr)

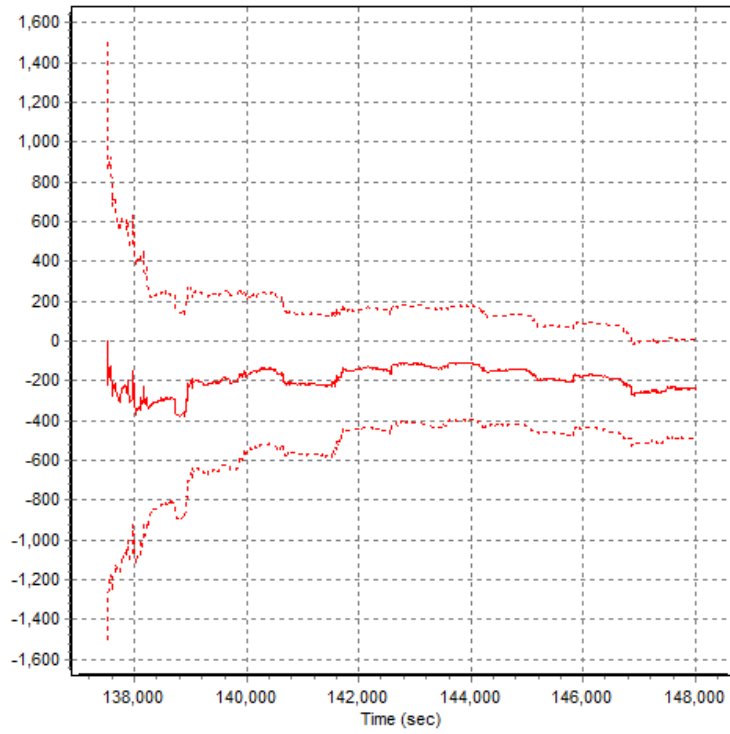


y gyro scale error (ppm)

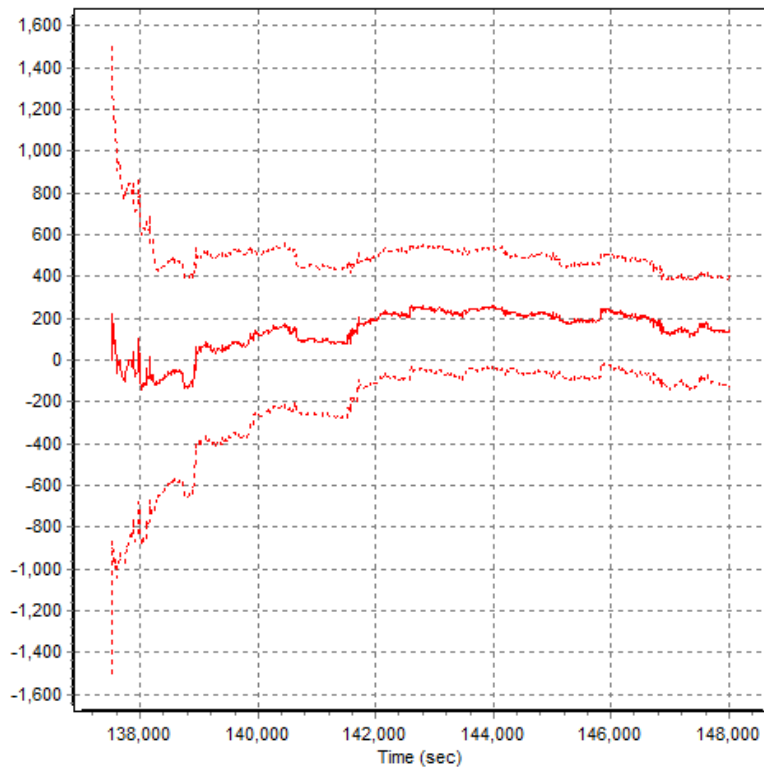




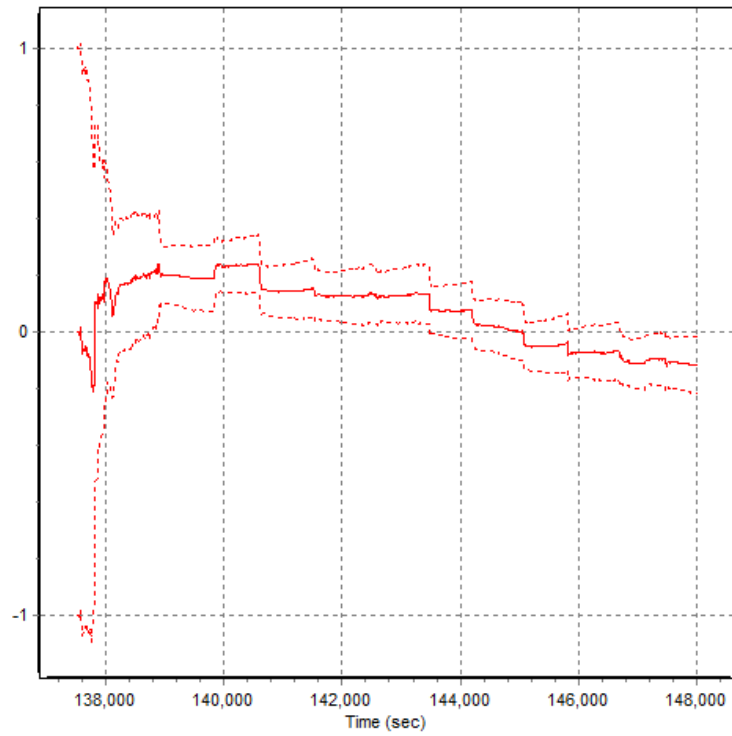
**z accelerometer bias (micro-g)**



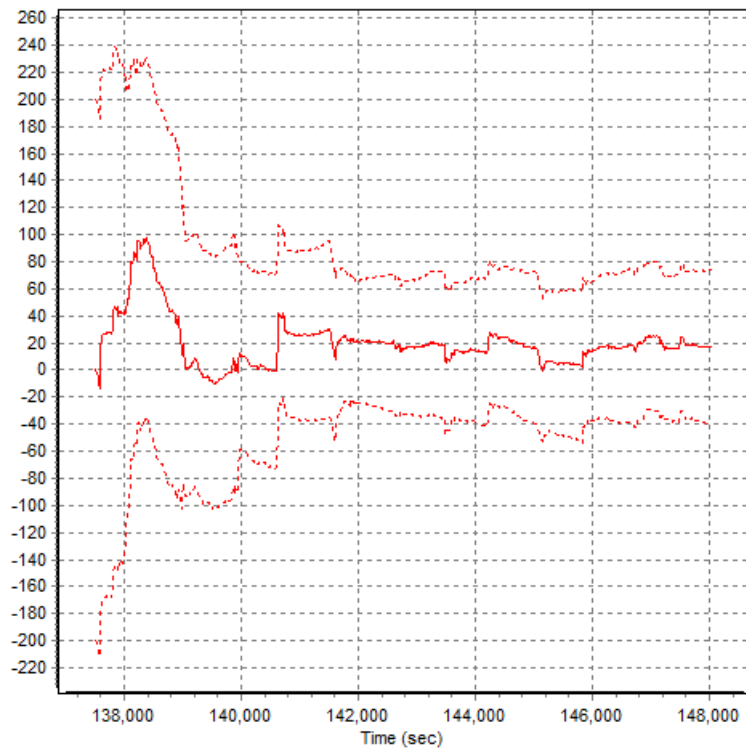
**z accelerometer scale error (ppm)**

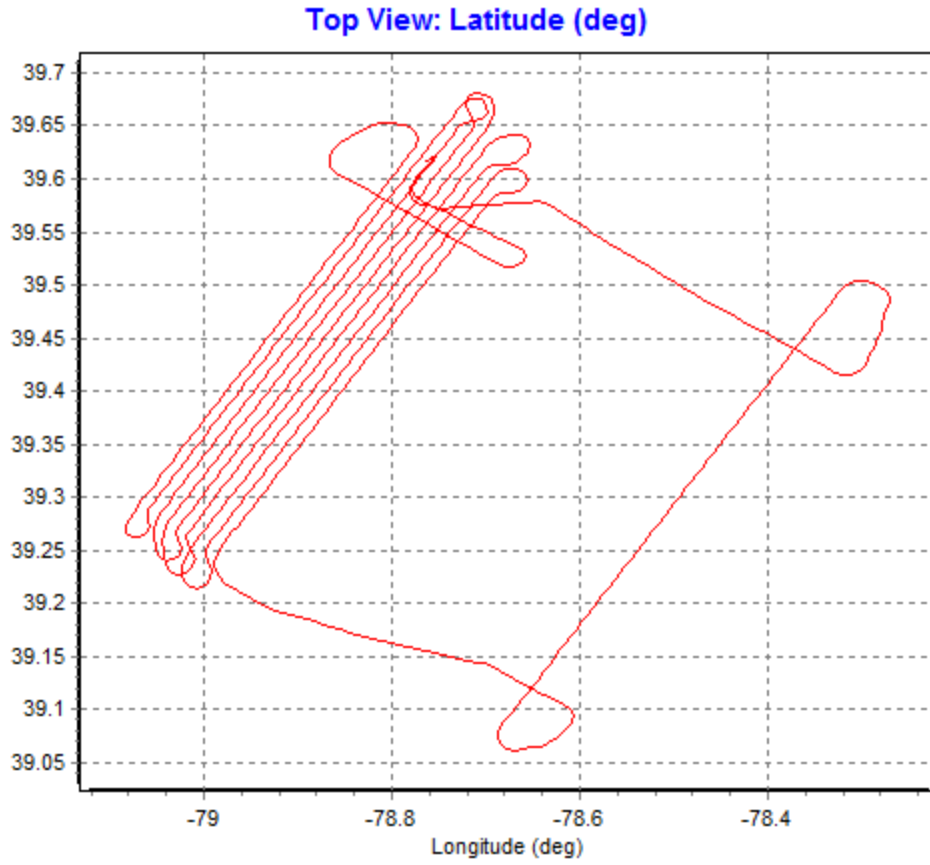


**z gyro bias (deg/hr)**

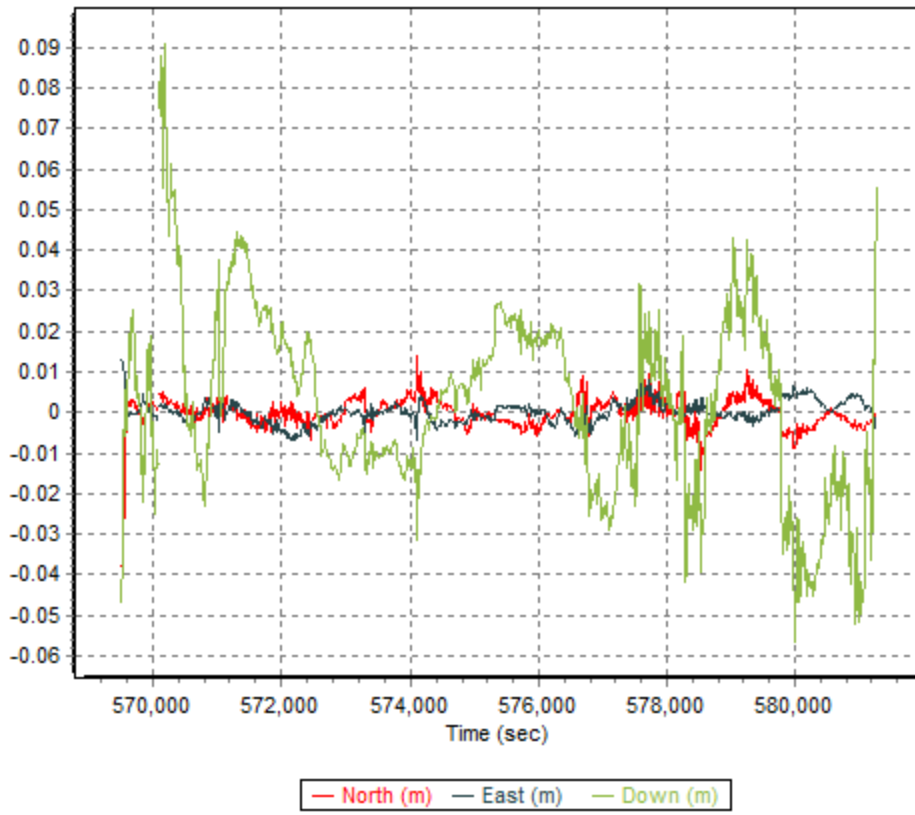


**z gyro scale error (ppm)**

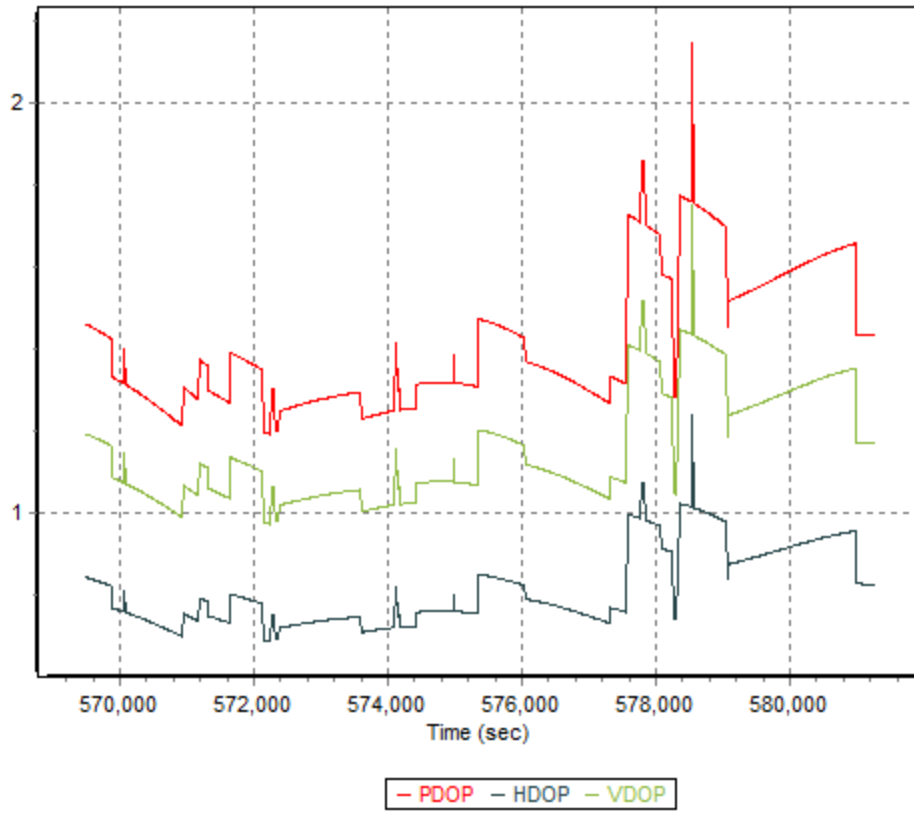


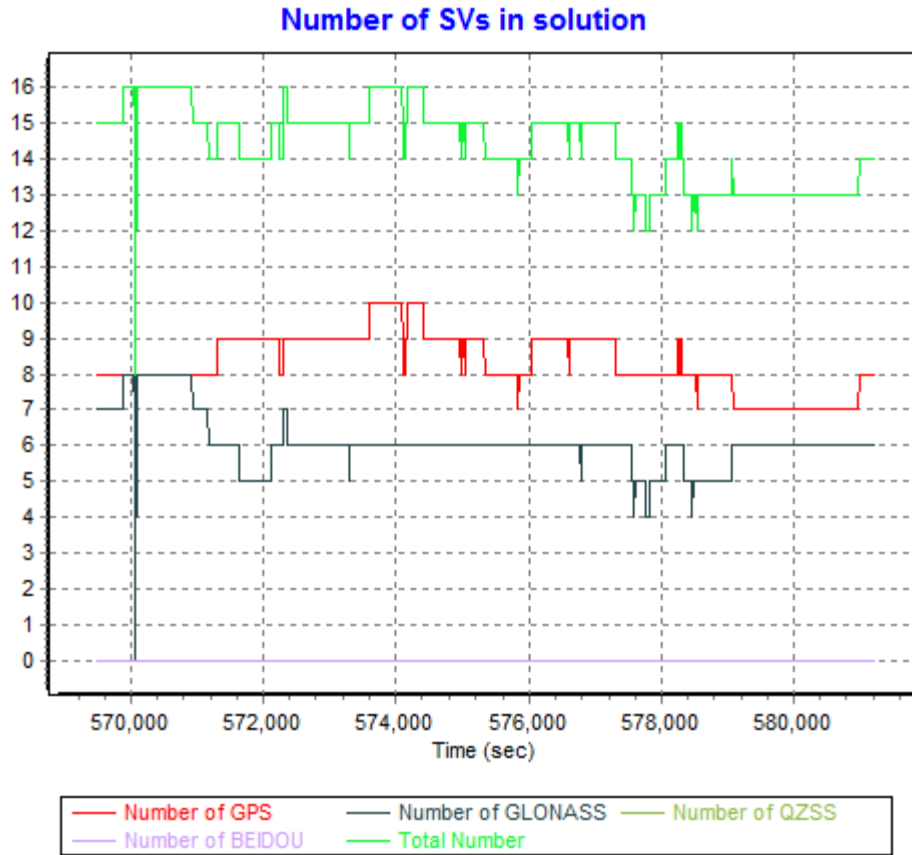


### Forward/Reverse Separation



### DOP





#### Processing Summary Information

Program: POSpac MMS  
Version: 7.2.5934.15637  
Project: \\sa\data\216027\20161112\_WV\_A

Solution Type: IN-Fusion SmartBase

Fixed: 11774 (99.99%)  
Float: 0 (0.0%)  
No Solution: 1 (0.01%)

Number of Epochs:

Total in RAW file: 11818  
No processed position: 44

Fwd/Rev Separation RMS Values (m):

East: 0.006  
North: 0.011  
Height: 0.069

Fwd/Rev Sep. RMS for 25%-75% weighting (m): 5909 occurrences

East: 0.003  
North: 0.005  
Height: 0.017

Position Standard Deviation Percentages:

0.00 - 0.10 m: 100.0 %  
0.10 - 0.30 m: 0.0 %  
0.30 - 1.00 m: 0.0 %  
1.00 - 5.00 m: 0.0 %  
5.00 m + over: 0.0 %

Percentages of epochs with DD\_DOP over 10.00: 0 %

DOP over Tol: 1.42 %

Baseline Distances (km):

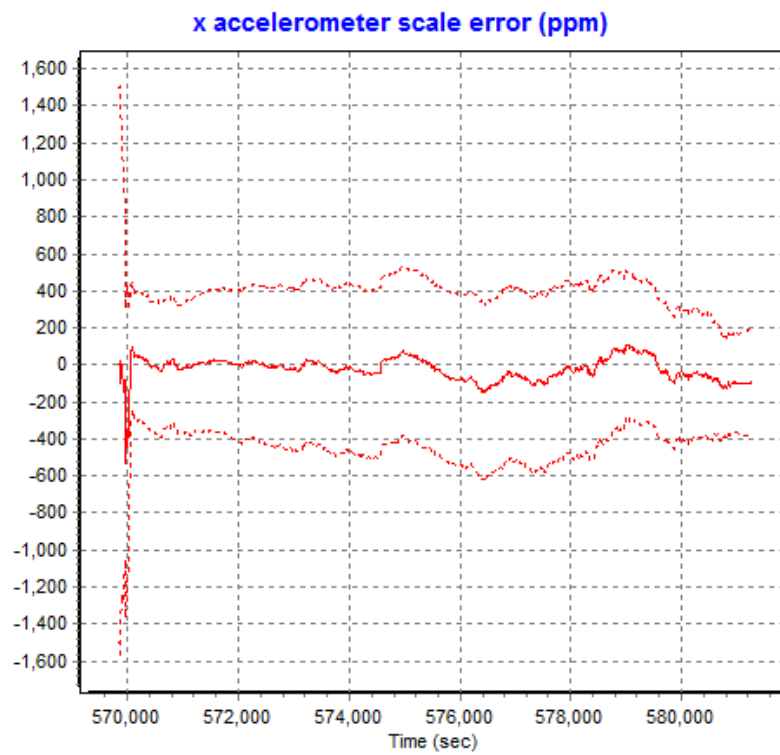
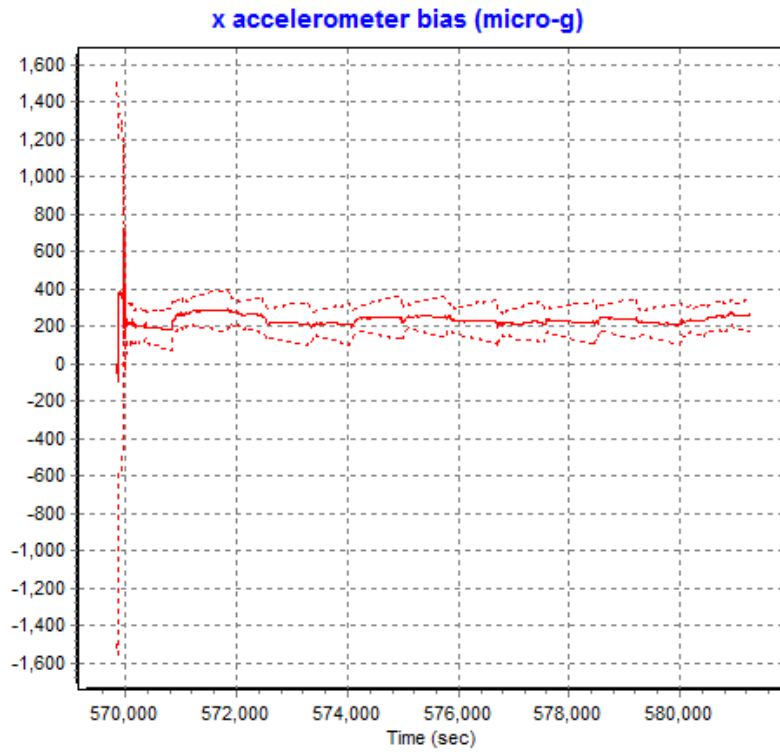
Maximum: 45.26  
Minimum: 1.30  
Average: 19.86  
First Epoch: 18.90  
Last Epoch: 19.08

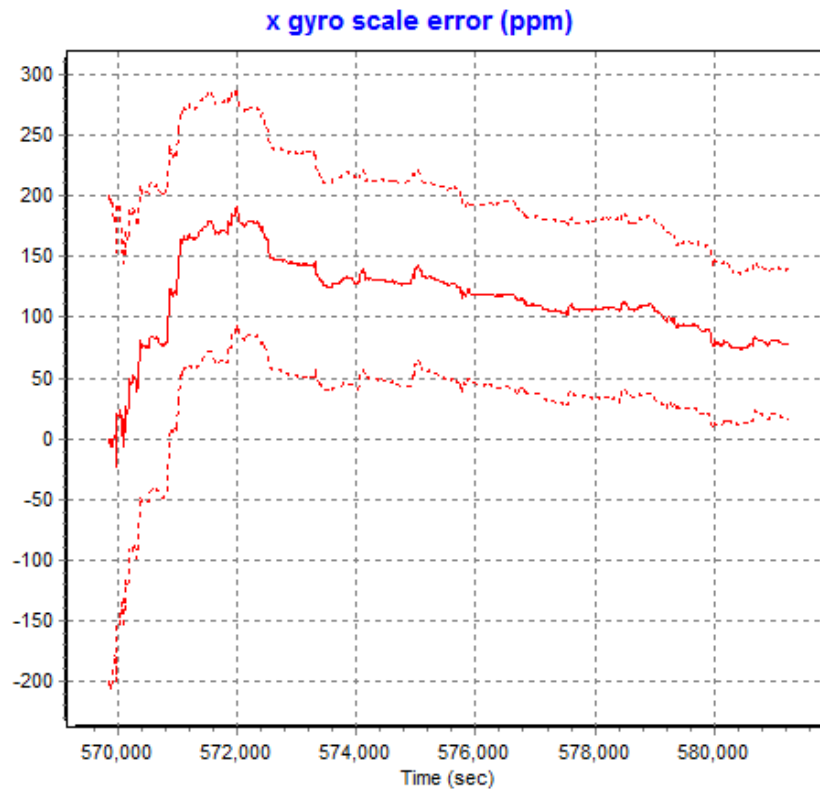
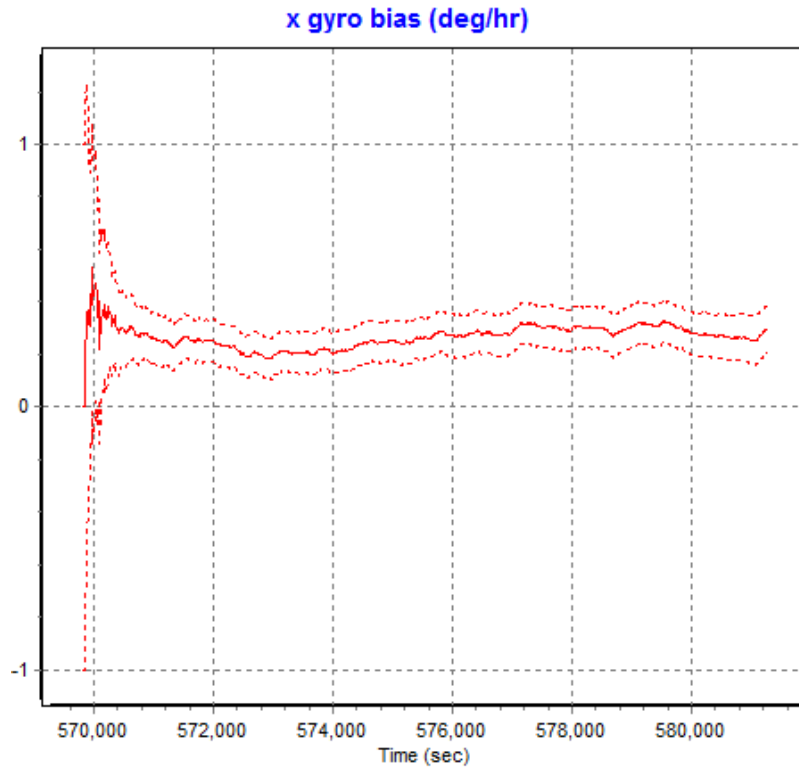
**CORS Base Stations**

Station	Original			Adjusted		
	Latitude	Longitude	Altitude	Latitude	Longitude	Altitude
LOYC	N39°07'12.57603"	W78°12'02.63239"	201.826	N39°07'12.57558"	W78°12'02.63174"	201.838
ZDC1	N39°06'05.74451"	W77°32'33.88933"	79.596	N39°06'05.74457"	W77°32'33.88931"	79.607
WVNR	N38°53'44.53445"	W79°51'30.29435"	581.501	N38°53'44.53444"	W79°51'30.29436"	581.496
WVMF	N39°04'32.37373"	W78°55'57.02161"	312.272	N39°04'32.37380"	W78°55'57.02149"	312.274
WVGB	N38°25'48.45398"	W79°49'01.31918"	811.181	N38°25'48.45369"	W79°49'01.31907"	811.179
WVCV	N39°00'55.10519"	W79°27'25.03348"	967.96	N39°00'55.10456"	W79°27'25.03251"	967.959
WVBU	N39°20'16.85129"	W78°54'48.61064"	198.787	N39°20'16.85129"	W78°54'48.61064"	198.787
WVBR	N39°18'28.91342"	W80°16'38.64394"	268.986	N39°18'28.91339"	W80°16'38.64421"	268.993
PAWG	N40°18'19.27228"	W79°30'22.40232"	334.926	N40°18'19.27223"	W79°30'22.40215"	334.935
PAII	N40°36'20.27853"	W79°11'09.35329"	377.906	N40°36'20.27861"	W79°11'09.35315"	377.906
PAGW	N39°53'56.14859"	W80°09'36.40313"	262.753	N39°53'56.14785"	W80°09'36.40191"	262.754
PAFU	N39°55'35.71865"	W79°41'50.53508"	326.747	N39°55'35.71861"	W79°41'50.53506"	326.761
PAFM	N39°57'44.94246"	W77°58'43.64065"	285.509	N39°57'44.94245"	W77°58'43.64037"	285.497
PAFC	N39°56'49.44386"	W77°40'11.19017"	175.871	N39°56'49.44372"	W77°40'11.19018"	175.872
PAAP	N40°26'40.28545"	W79°57'32.15471"	312.509	N40°26'40.28552"	W79°57'32.15483"	312.511
LWX1	N38°58'21.66394"	W77°29'18.98432"	60.728	N38°58'21.66389"	W77°29'18.98473"	60.744
LOYY	N38°53'18.57661"	W78°29'56.96630"	220.904	N38°53'18.57675"	W78°29'56.96637"	220.914
LOYS	N39°38'46.42051"	W78°43'47.92091"	168.093	N39°38'46.42065"	W78°43'47.92088"	168.075
LOYQ	N39°38'02.62363"	W77°42'51.12035"	127.23	N39°38'02.62398"	W77°42'51.12022"	127.212
LOYJ	N38°28'20.92222"	W78°00'36.16887"	103.853	N38°28'20.92231"	W78°00'36.16859"	103.857
LOYA	N38°25'33.92918"	W78°53'21.79750"	363.919	N38°25'33.92915"	W78°53'21.79761"	363.965
ALLG	N39°39'13.91860"	W78°43'50.52687"	174.48	N39°39'13.91869"	W78°43'50.52665"	174.497

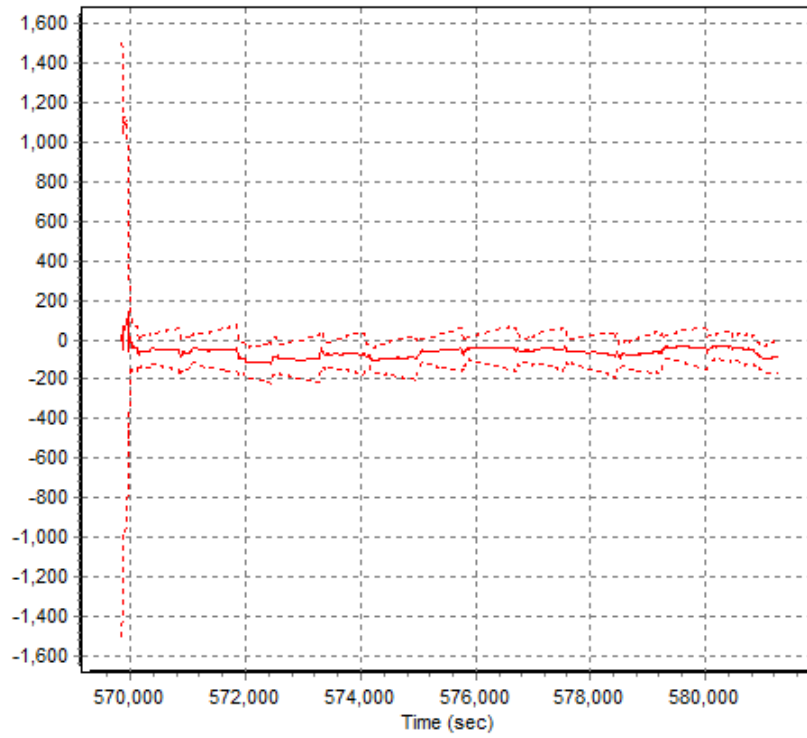


CORS

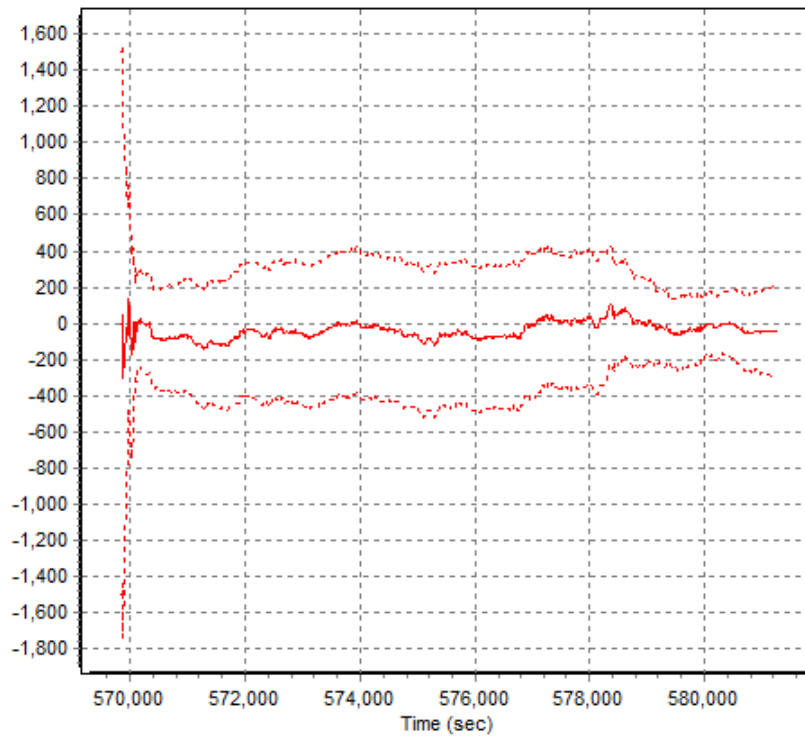




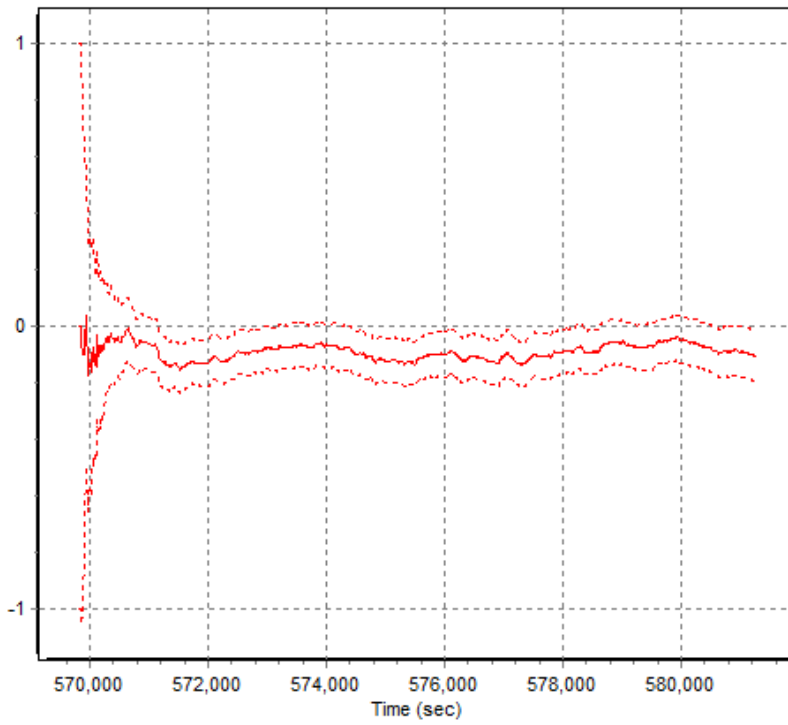
**y accelerometer bias (micro-g)**



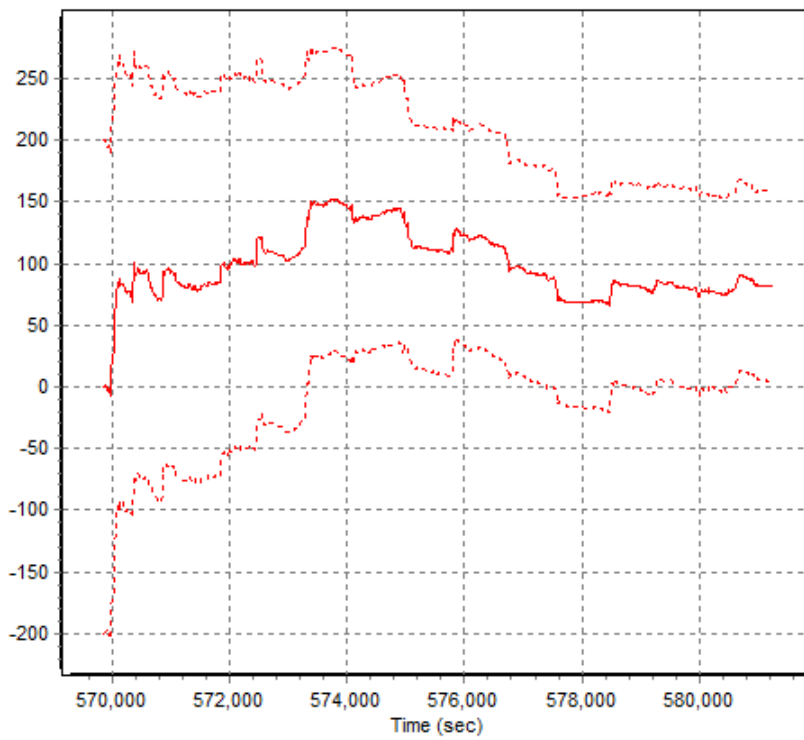
**y accelerometer scale error (ppm)**

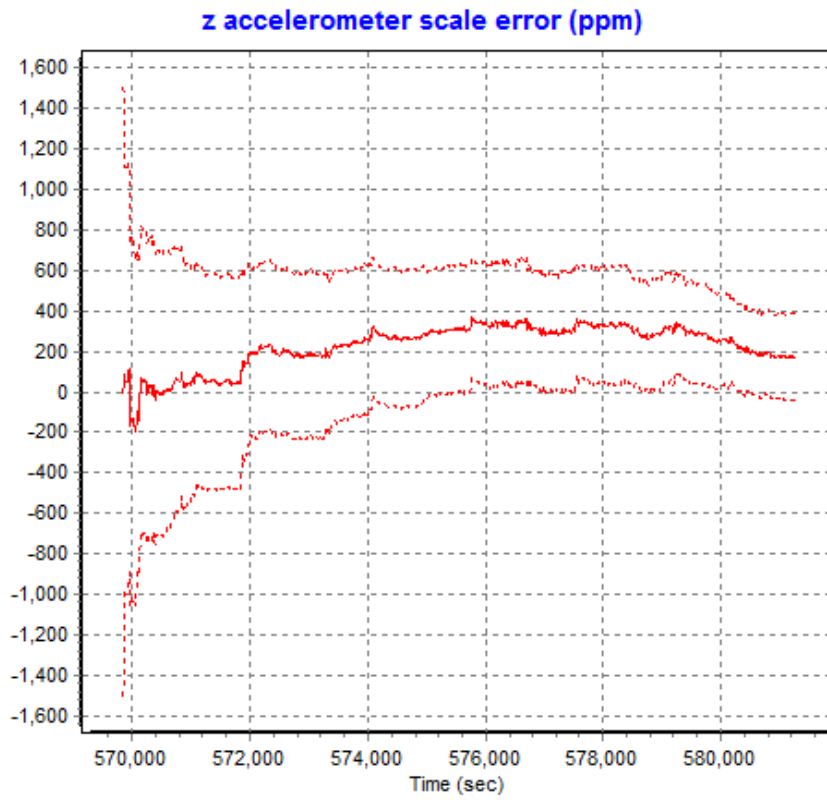
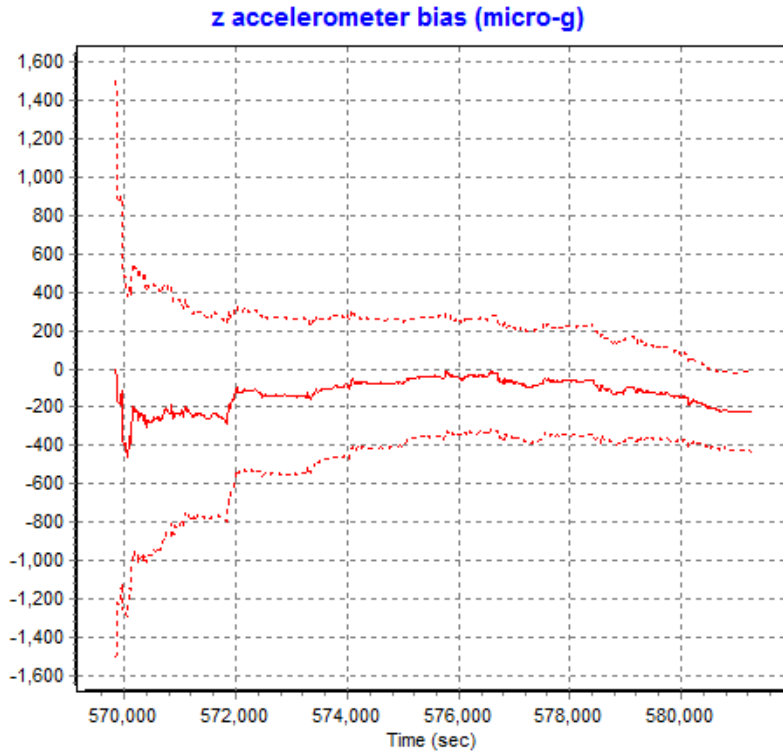


y gyro bias (deg/hr)

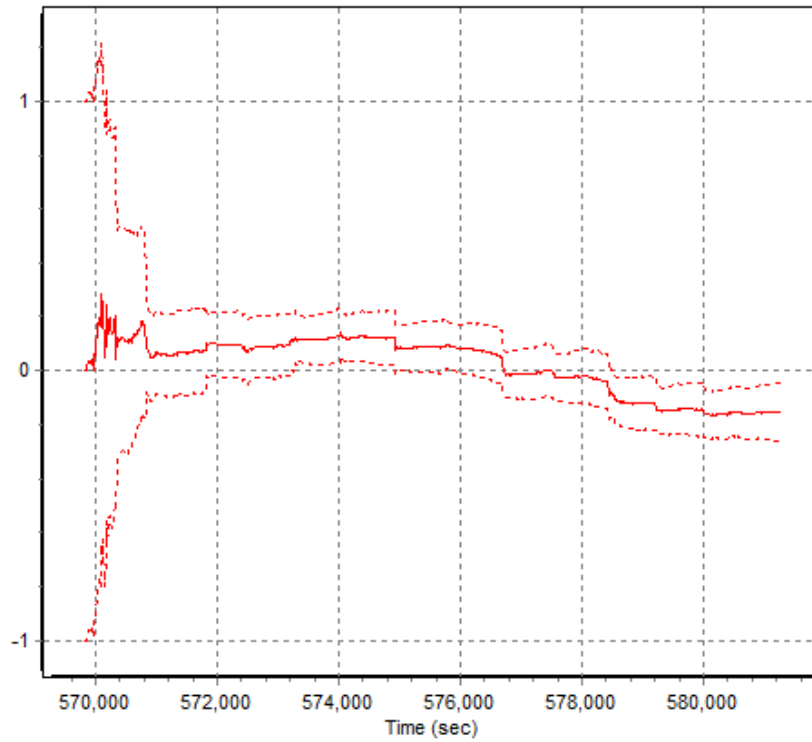


y gyro scale error (ppm)

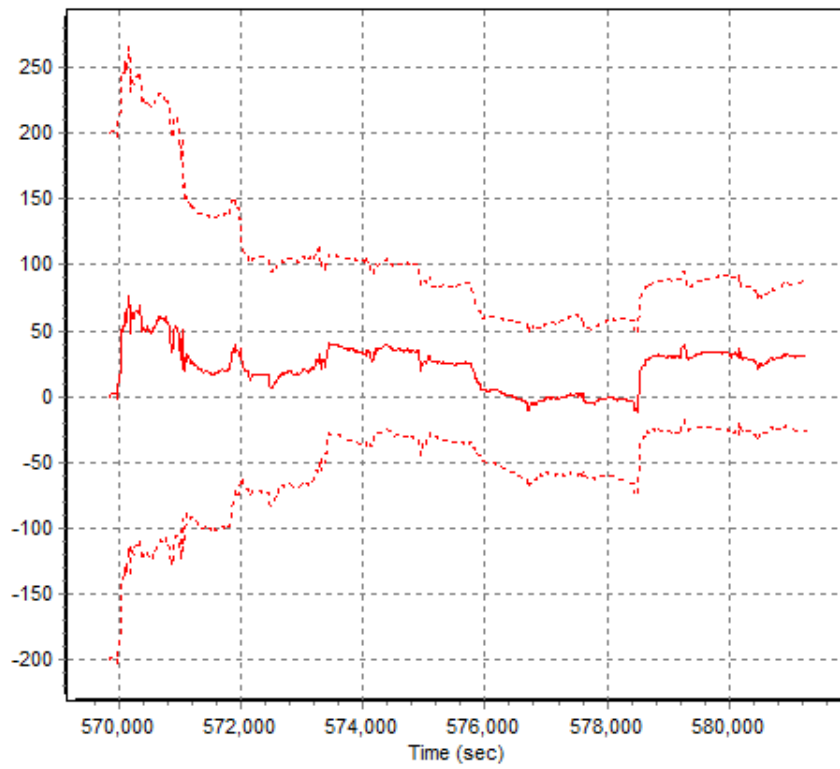




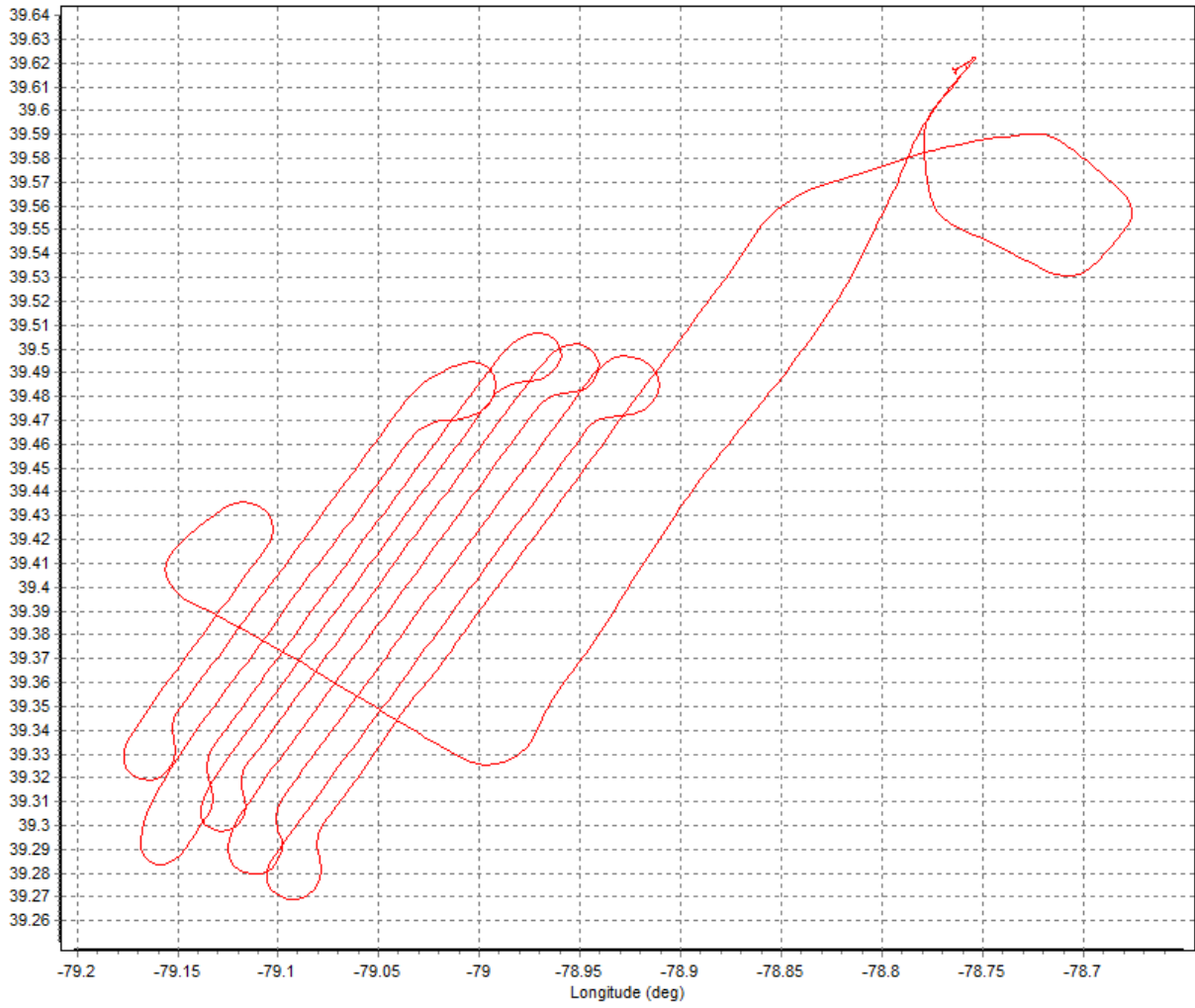
**z gyro bias (deg/hr)**



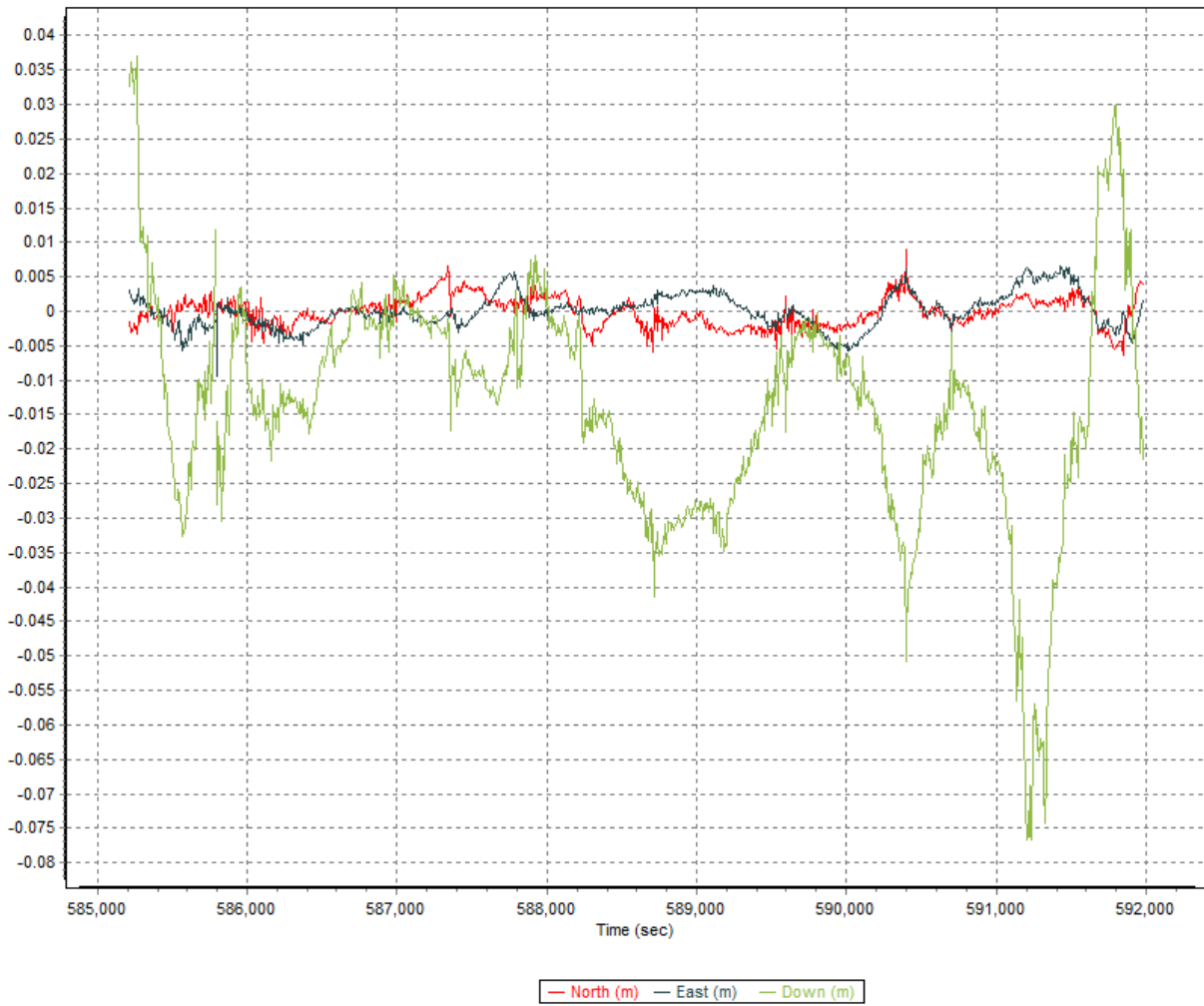
**z gyro scale error (ppm)**



Top View: Latitude (deg)

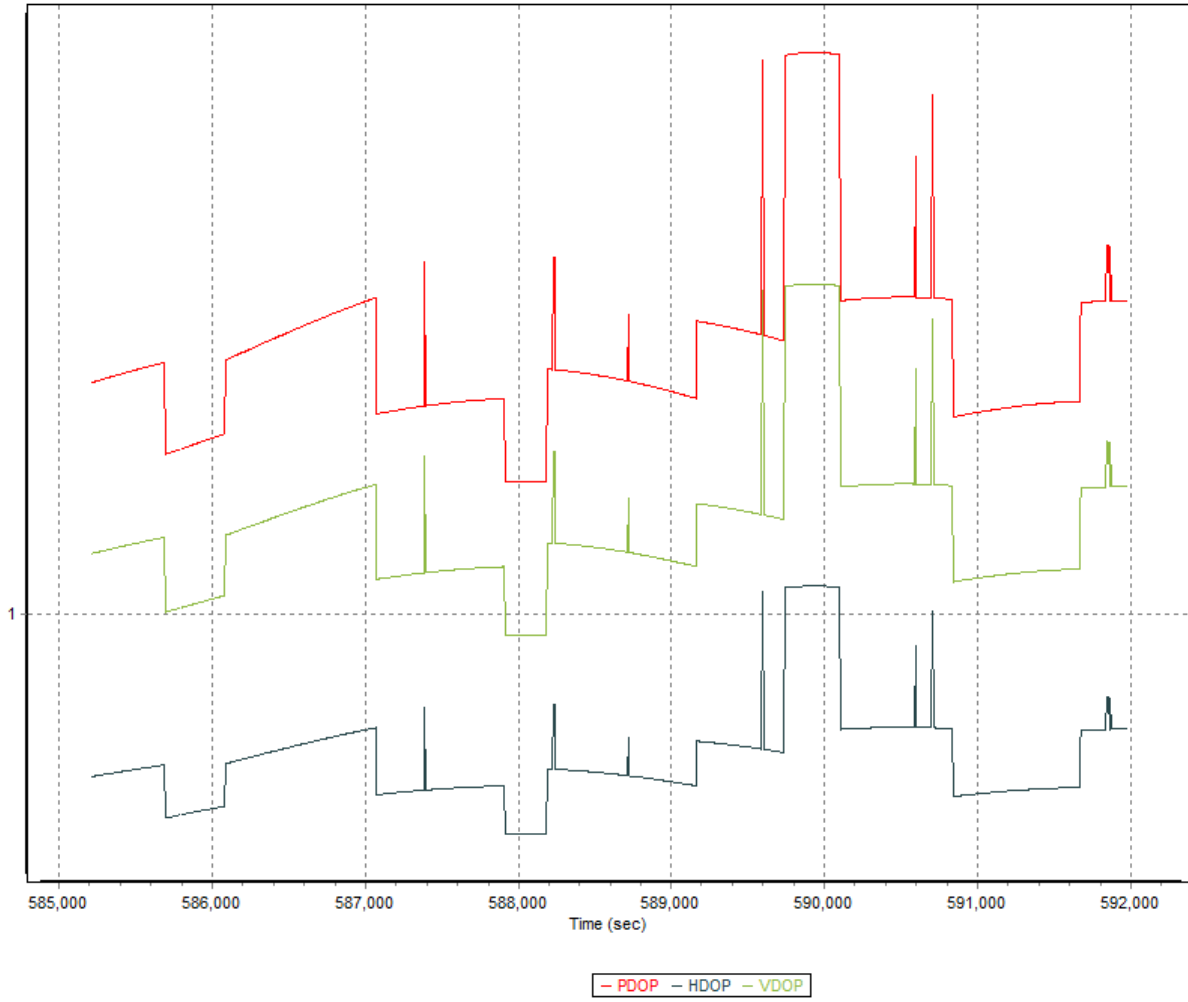


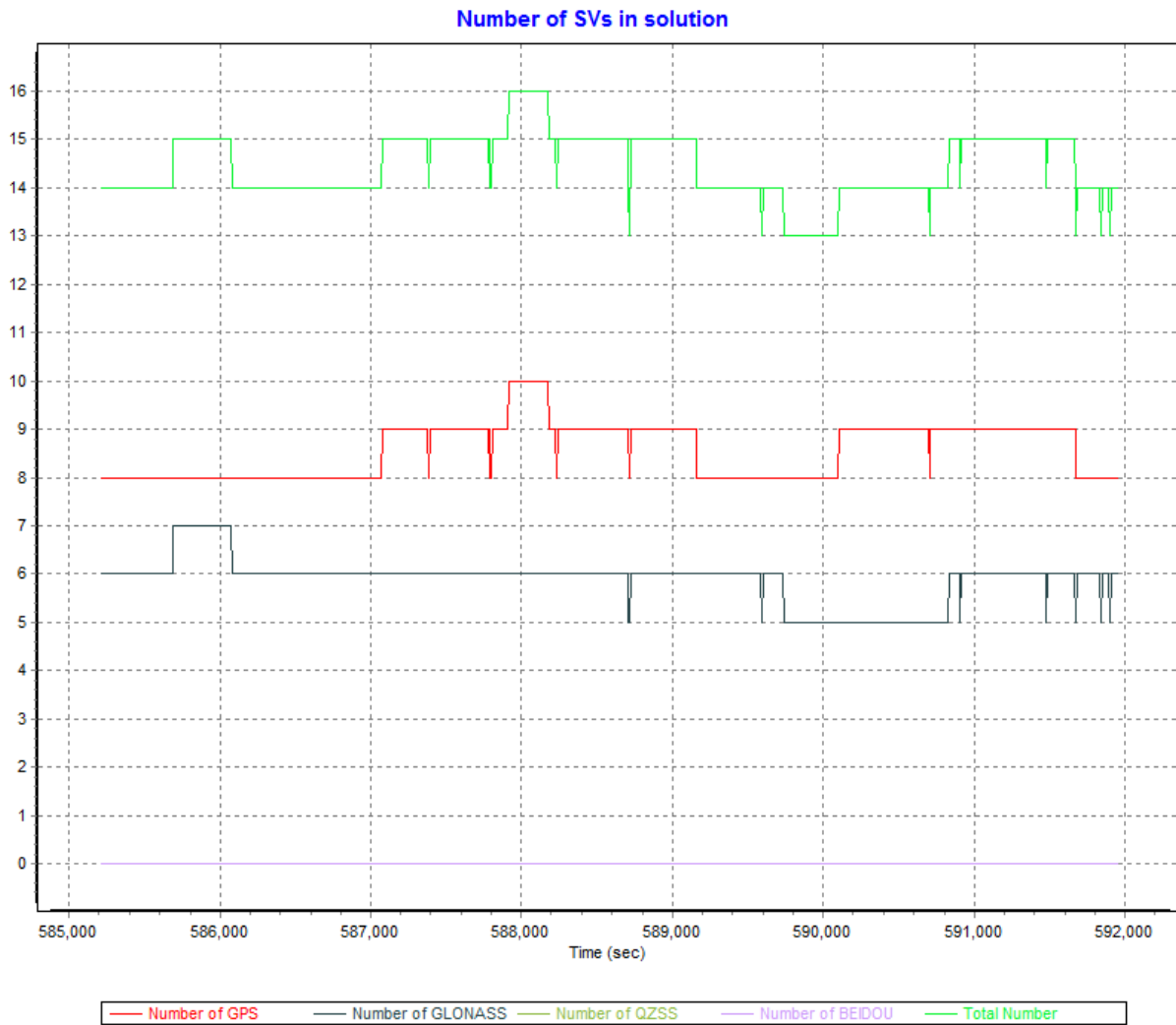
### Forward/Reverse Separation





DOP





### Processing Summary Information

Program: POSPac MMS  
Version: 7.2.5934.15637  
Project: \\sa\data\216027\20161112\_WV\_B

Solution Type: IN-Fusion SmartBase

Fixed: 6756 (99.99%)  
Float: 0 (0.0%)  
No Solution: 1 (0.01%)

Number of Epochs:

Total in RAW file: 6784  
No processed position: 28

Fwd/Rev Separation RMS Values (m):

East: 0.003  
North: 0.003  
Height: 0.039

Fwd/Rev Sep. RMS for 25%-75% weighting (m): 3392 occurrences:

East: 0.002  
North: 0.002  
Height: 0.018

Position Standard Deviation Percentages:

0.00 - 0.10 m: 100.0 %  
0.10 - 0.30 m: 0.0 %  
0.30 - 1.00 m: 0.0 %  
1.00 - 5.00 m: 0.0 %  
5.00 m + over: 0.0 %

Percentages of epochs with DD\_DOP over 10.00: 0 %

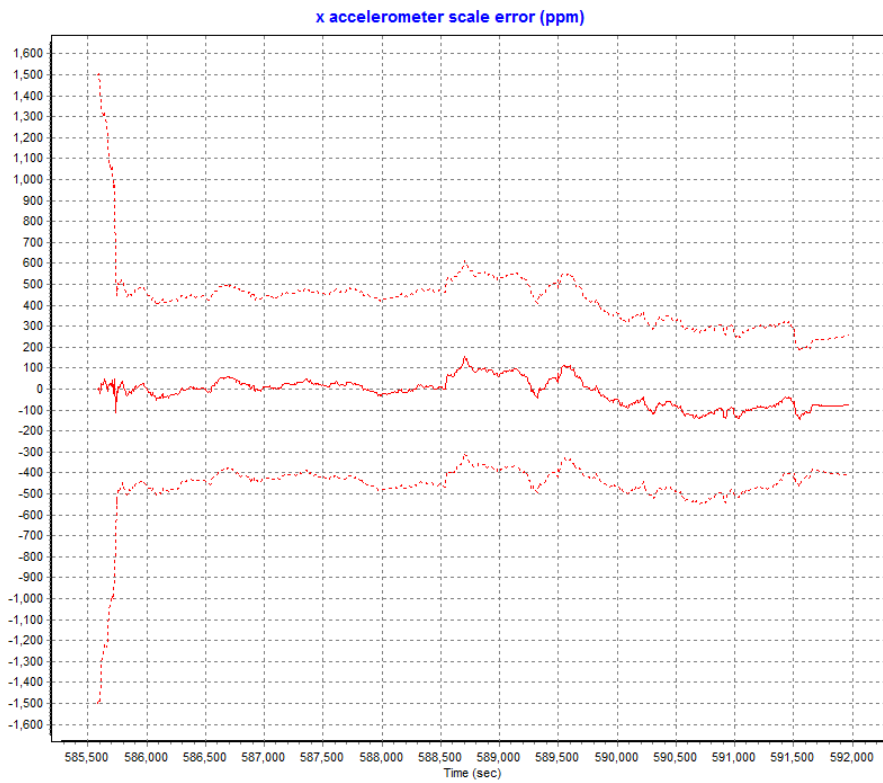
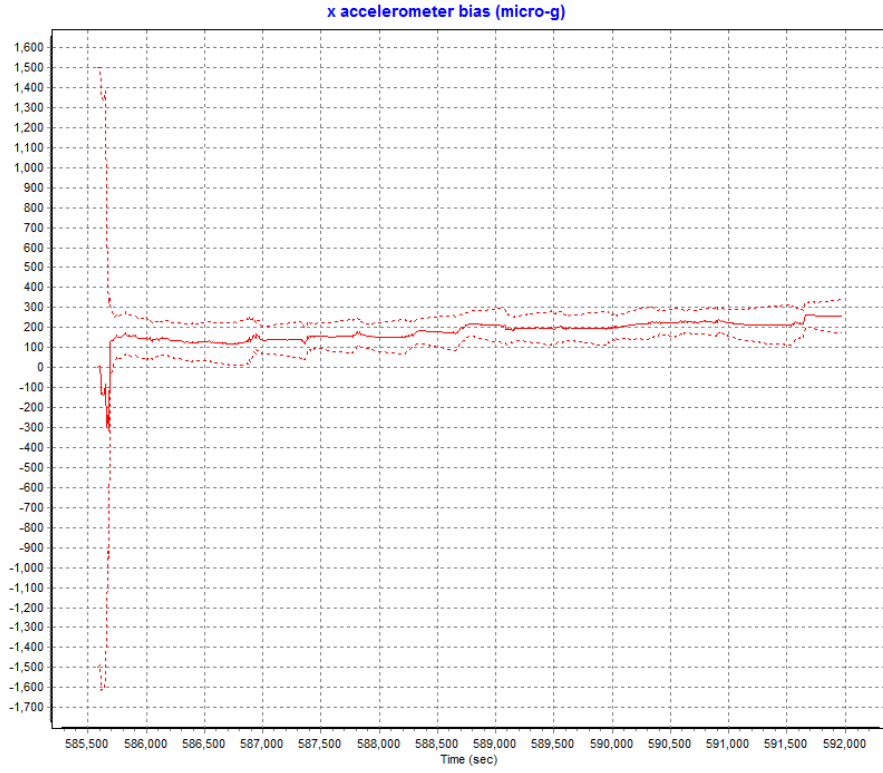
DOP over Tol: 1.38 %

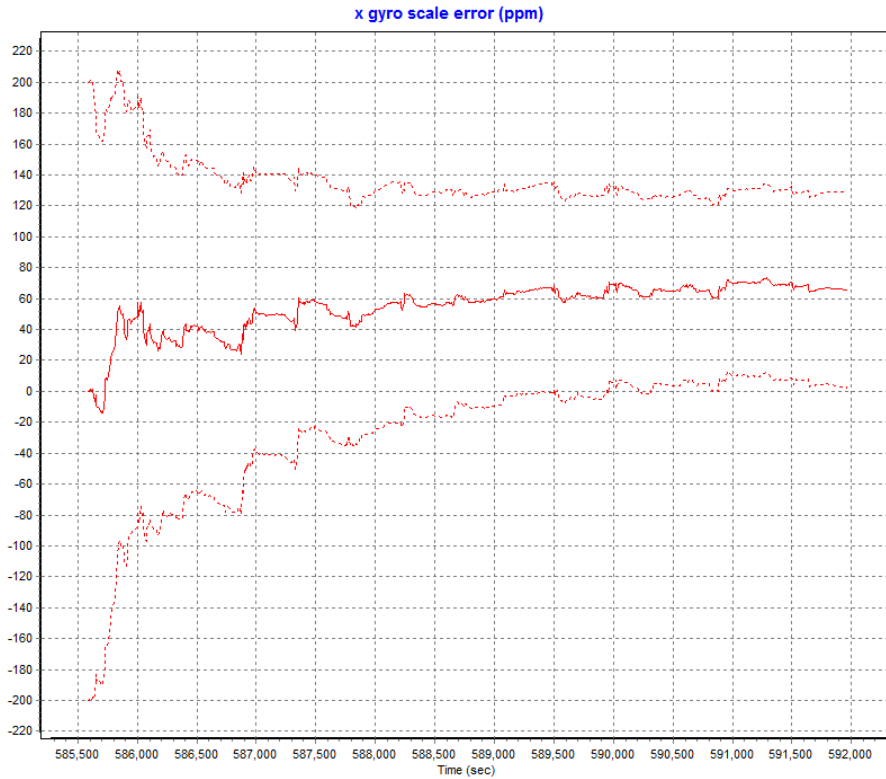
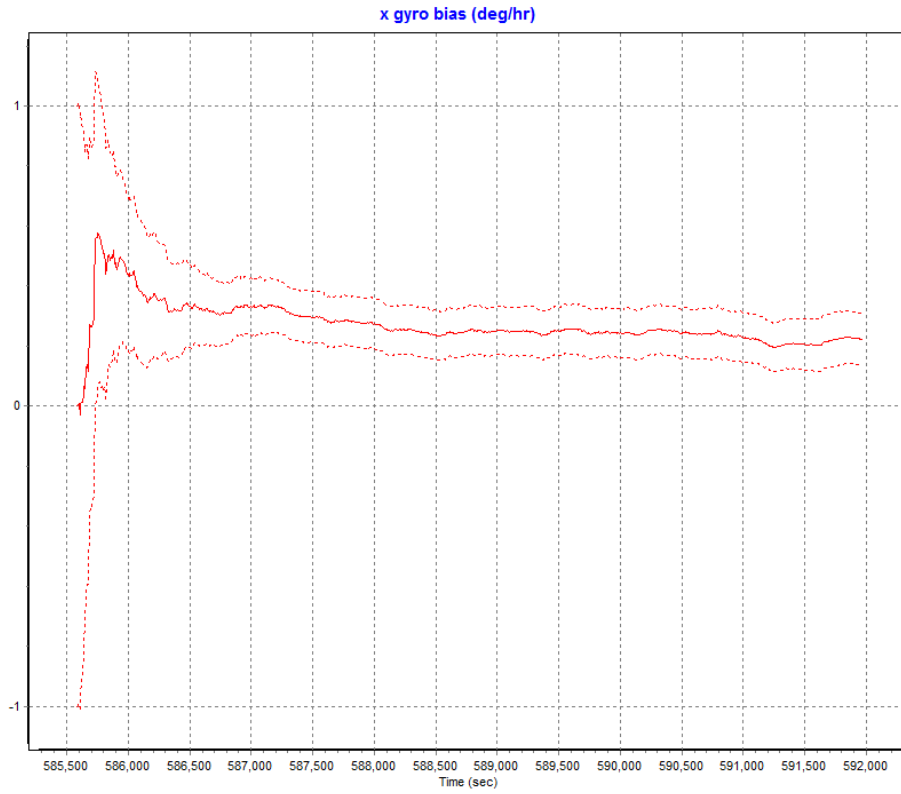
Baseline Distances (km):

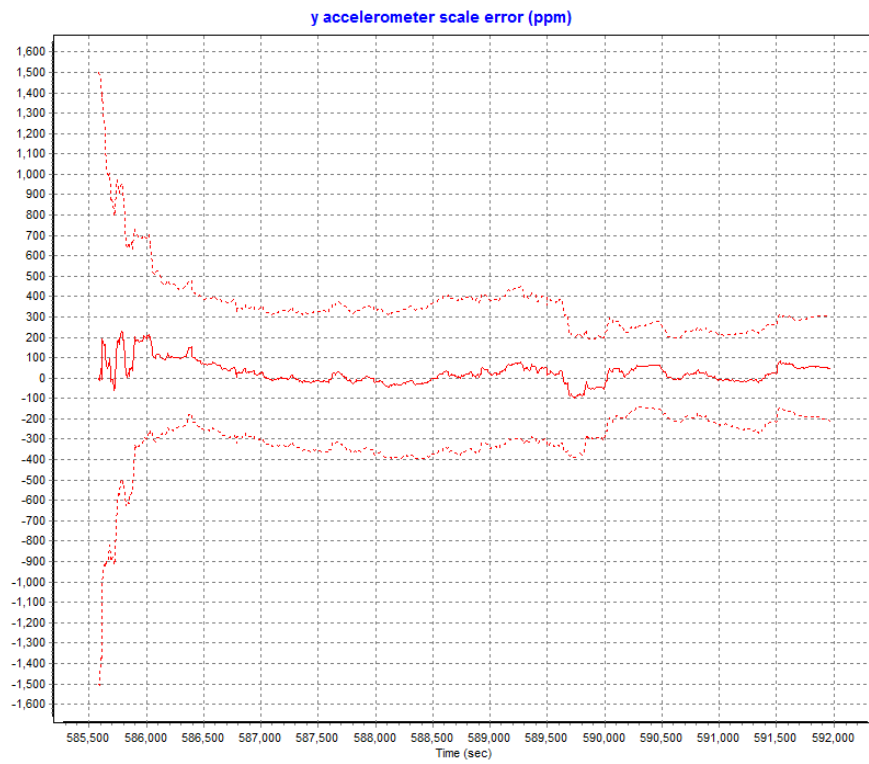
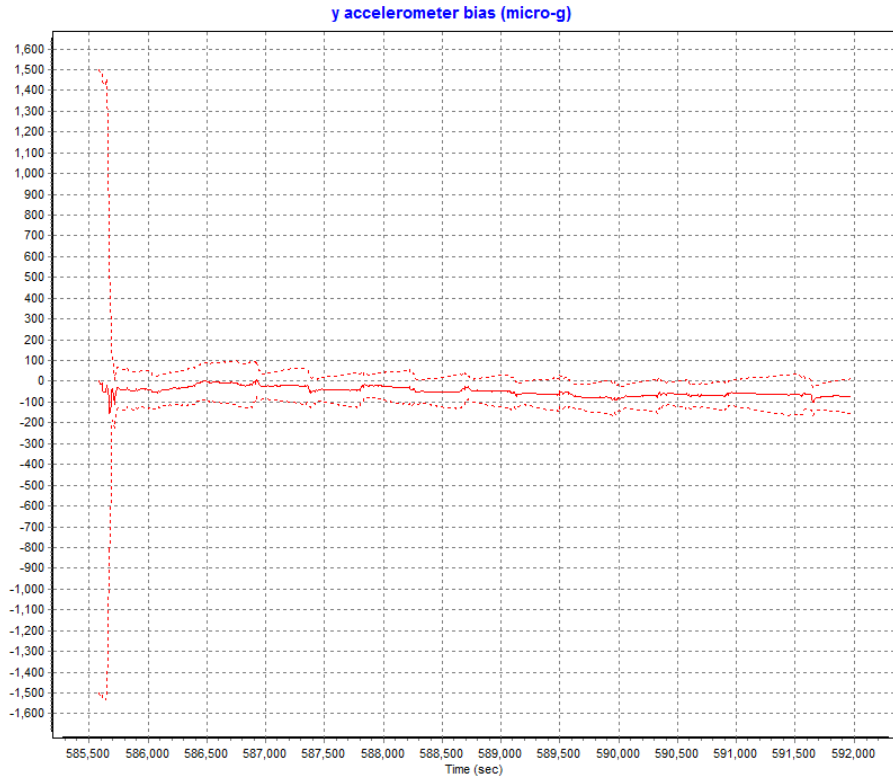
Maximum: 23.97  
Minimum: 0.49  
Average: 15.85  
First Epoch: 24.98  
Last Epoch: 49.715 19.08

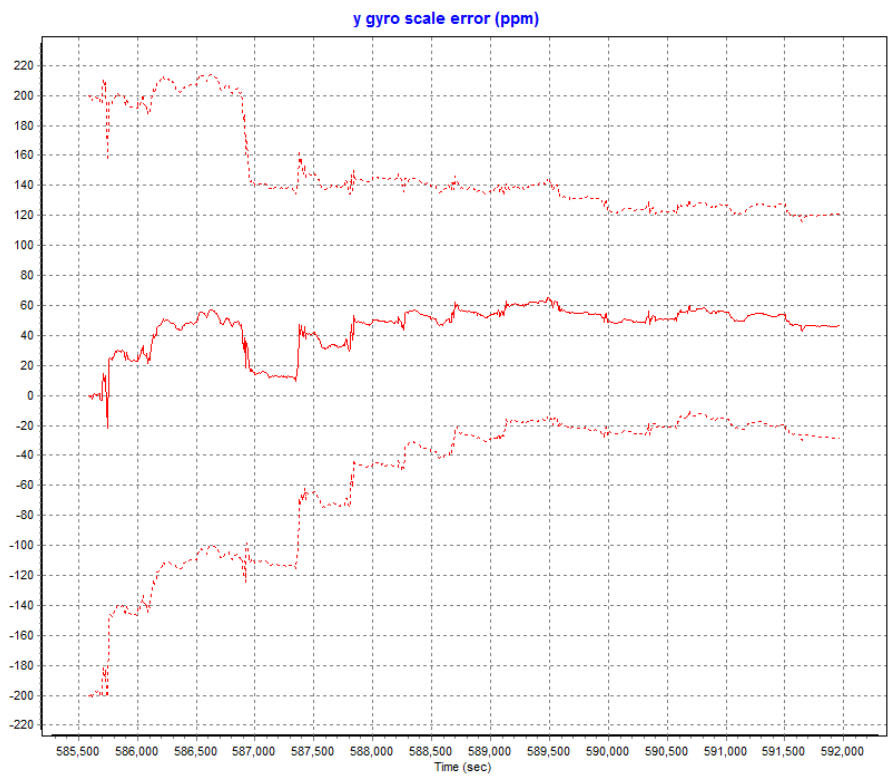
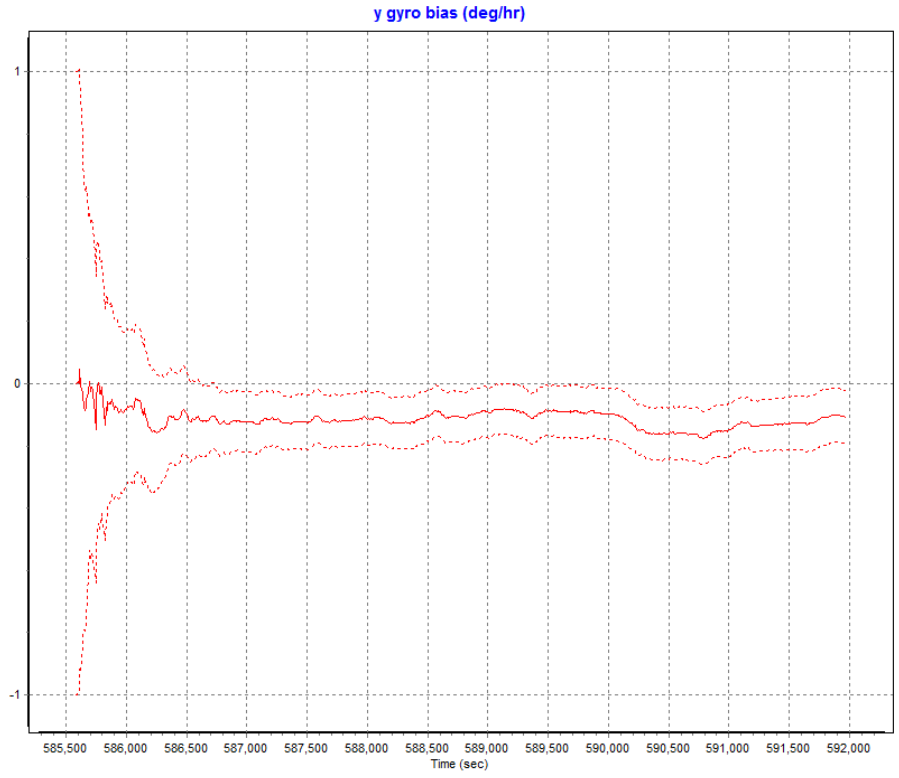
### CORS Base Stations

Station	Original			Adjusted		
	Latitude	Longitude	Altitude	Latitude	Longitude	Altitude
WVBU	N39°20'16.85145"	W78°54'48.61119"	198.793	N39°20'16.85145"	W78°54'48.61119"	198.793
ZDC1	N39°06'05.74451"	W77°32'33.88933"	79.596	N39°06'05.74473"	W77°32'33.88987"	79.613
WVNR	N38°53'44.53445"	W79°51'30.29435"	581.501	N38°53'44.53459"	W79°51'30.29491"	581.502
WVMF	N39°04'32.37373"	W78°55'57.02161"	312.272	N39°04'32.37396"	W78°55'57.02204"	312.279
WVGB	N38°25'48.45398"	W79°49'01.31918"	811.181	N38°25'48.45385"	W79°49'01.31961"	811.185
WVCV	N39°00'55.10519"	W79°27'25.03348"	967.96	N39°00'55.10472"	W79°27'25.03306"	967.965
WVBR	N39°18'28.91342"	W80°16'38.64394"	268.986	N39°18'28.91355"	W80°16'38.64476"	268.999
PAWG	N40°18'19.27228"	W79°30'22.40232"	334.926	N40°18'19.27238"	W79°30'22.40272"	334.941
PAII	N40°36'20.27853"	W79°11'09.35329"	377.906	N40°36'20.27876"	W79°11'09.35371"	377.912
PAGW	N39°53'56.14859"	W80°09'36.40313"	262.753	N39°53'56.14801"	W80°09'36.40247"	262.76
PAFU	N39°55'35.71865"	W79°41'50.53508"	326.747	N39°55'35.71876"	W79°41'50.53562"	326.767
PAFM	N39°57'44.94246"	W77°58'43.64065"	285.509	N39°57'44.94261"	W77°58'43.64093"	285.502
PAFC	N39°56'49.44386"	W77°40'11.19017"	175.871	N39°56'49.44388"	W77°40'11.19074"	175.878
PAAP	N40°26'40.28545"	W79°57'32.15471"	312.509	N40°26'40.28567"	W79°57'32.15539"	312.517
LWX1	N38°58'21.66394"	W77°29'18.98432"	60.728	N38°58'21.66406"	W77°29'18.98529"	60.75
LOYY	N38°53'18.57661"	W78°29'56.96630"	220.904	N38°53'18.57691"	W78°29'56.96692"	220.92
LOYS	N39°38'46.42051"	W78°43'47.92091"	168.093	N39°38'46.42081"	W78°43'47.92144"	168.08
LOYQ	N39°38'02.62363"	W77°42'51.12035"	127.23	N39°38'02.62414"	W77°42'51.12078"	127.217
LOYJ	N38°28'20.92222"	W78°00'36.16887"	103.853	N38°28'20.92247"	W78°00'36.16914"	103.863
LOYC	N39°07'12.57573"	W78°12'02.63165"	201.807	N39°07'12.57574"	W78°12'02.63229"	201.844
LOYA	N38°25'33.92918"	W78°53'21.79750"	363.919	N38°25'33.92931"	W78°53'21.79816"	363.97
ALLG	N39°39'13.91860"	W78°43'50.52687"	174.48	N39°39'13.91885"	W78°43'50.52721"	174.503

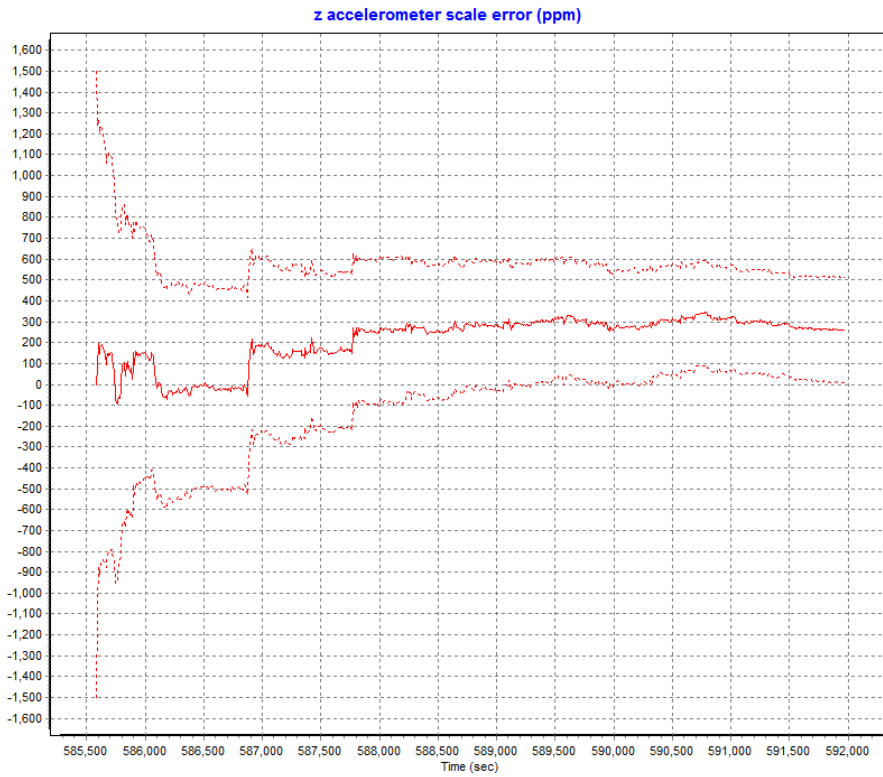
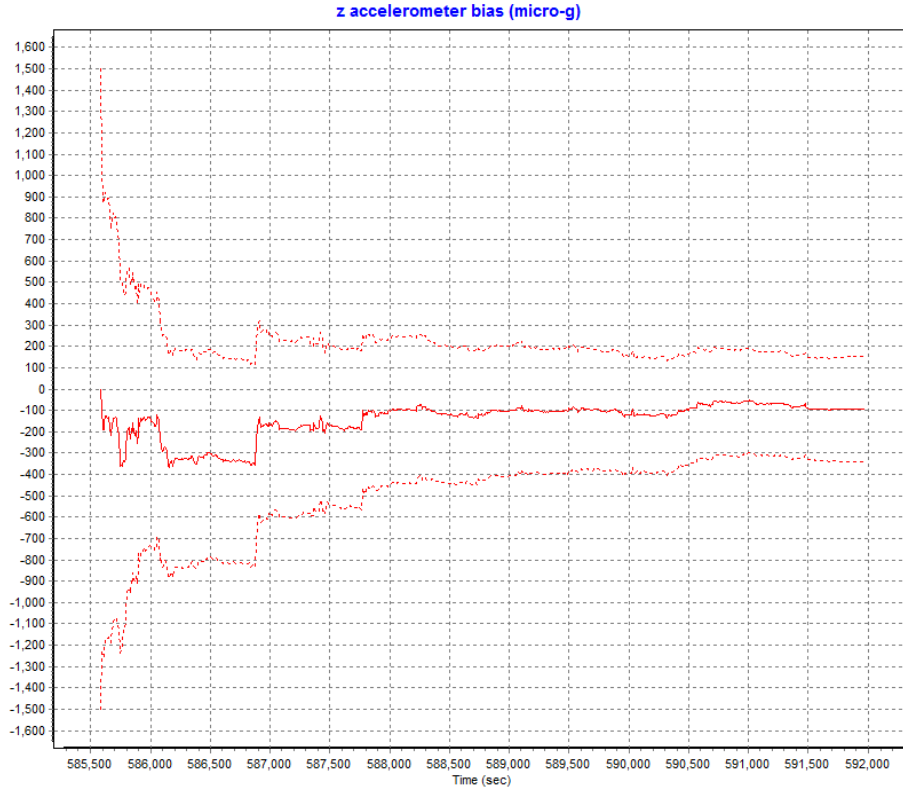




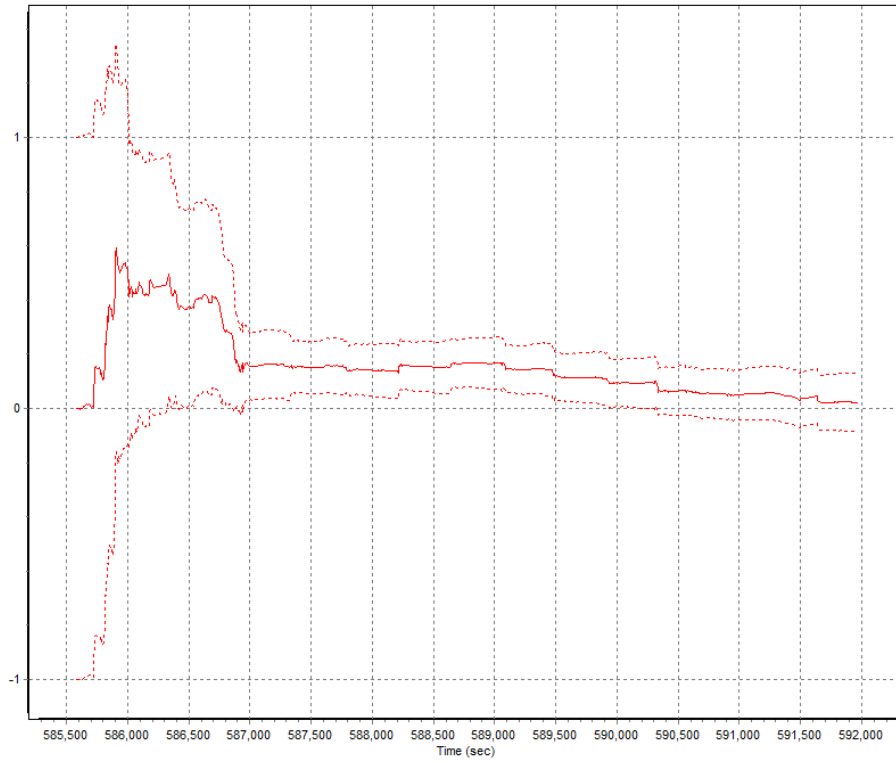




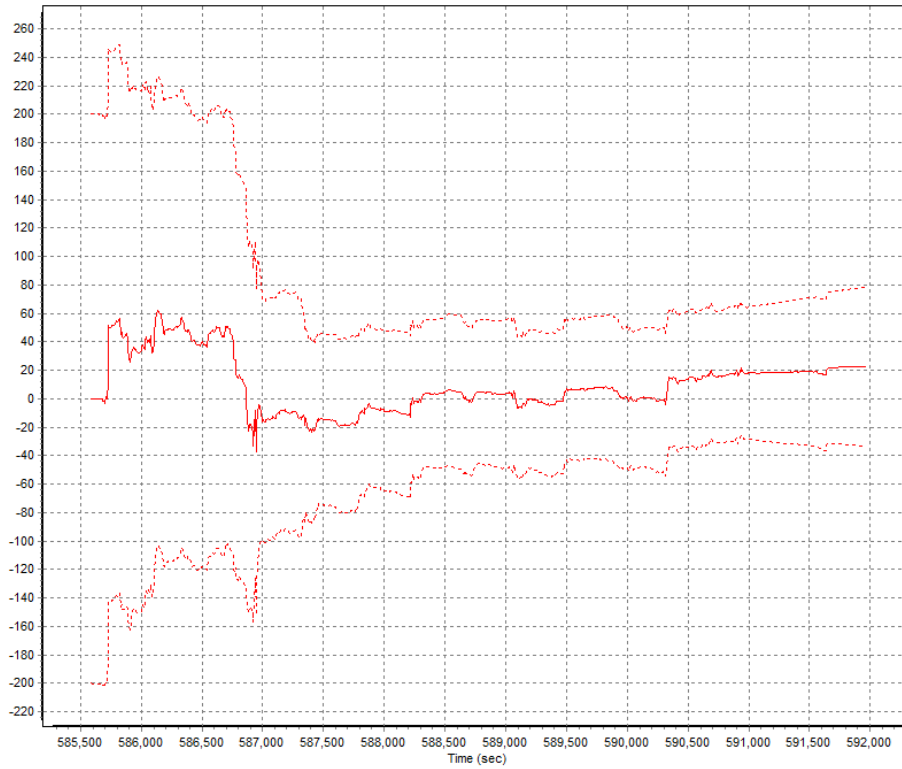


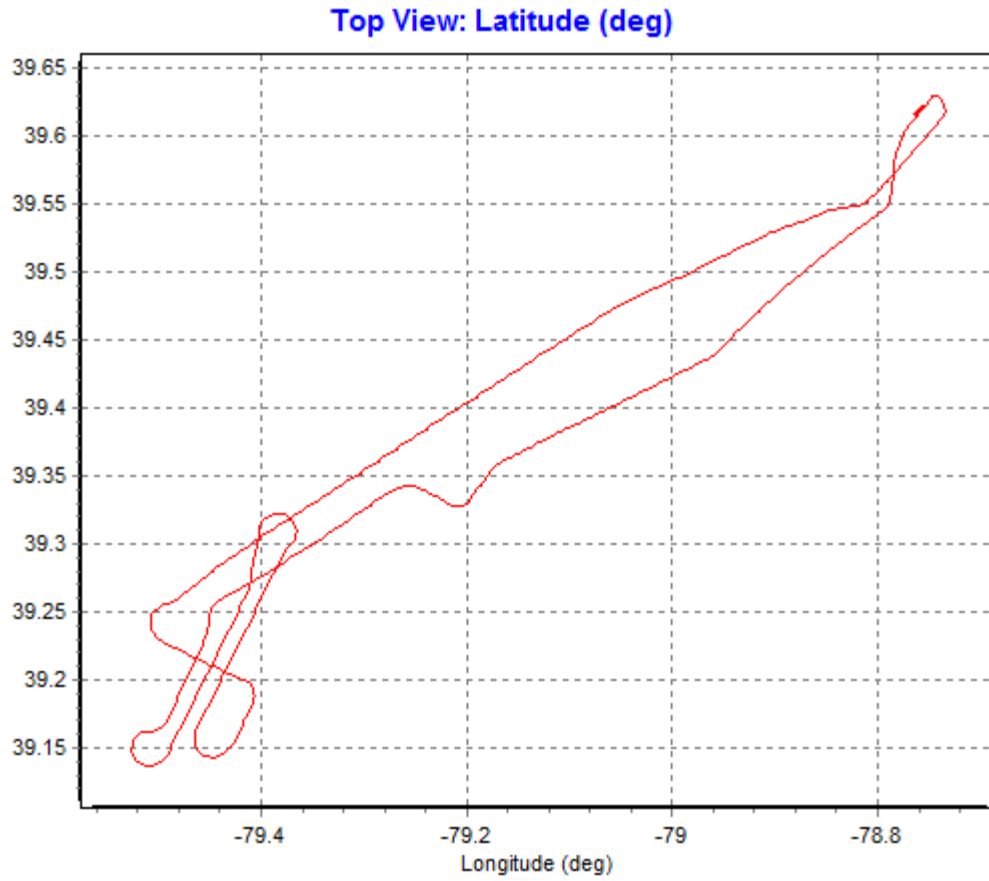


z gyro bias (deg/hr)



z gyro scale error (ppm)

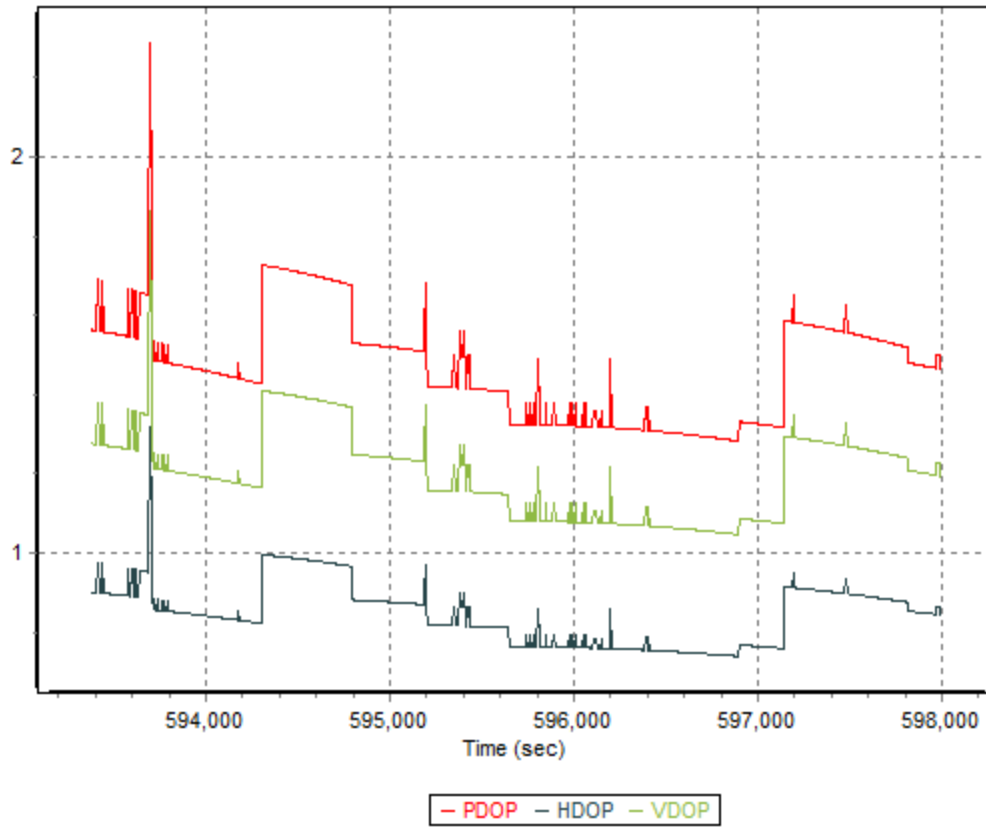




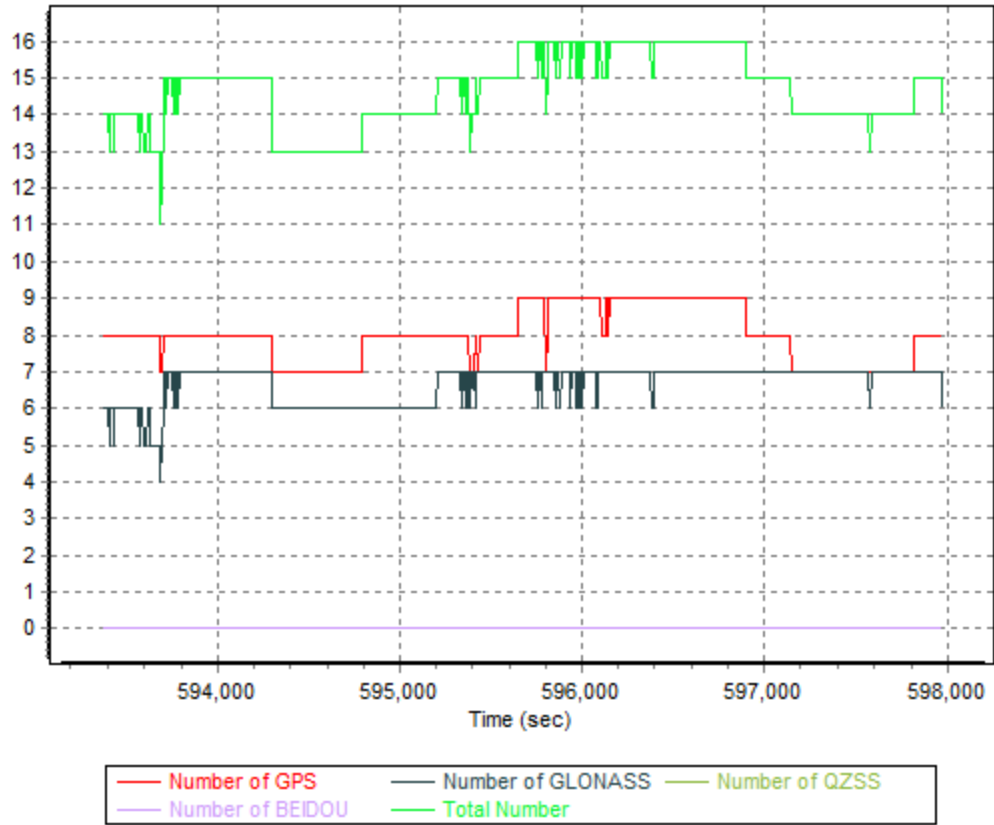
### Forward/Reverse Separation



### DOP



### Number of SVs in solution



### Processing Summary Information

Program: POSPac MMS  
Version: 7.2.5934.15637  
Project: \\sa\data\216027\20161112\_WV\_C

Solution Type: IN-Fusion SmartBase

Fixed: 4606 (99.98%)  
Float: 0 (0.0%)  
No Solution: 1 (0.02%)

Number of Epochs:

Total in RAW file: 4632  
No processed position: 26

Fwd/Rev Separation RMS Values (m):

East: 0.008  
North: 0.011  
Height: 0.051

Fwd/Rev Sep. RMS for 25%-75% weighting (m): 2316 occurrences

East: 0.013  
North: 0.007  
Height: 0.060

Position Standard Deviation Percentages:

0.00 - 0.10 m: 100.0 %  
0.10 - 0.30 m: 0.0 %  
0.30 - 1.00 m: 0.0 %  
1.00 - 5.00 m: 0.0 %  
5.00 m + over: 0.0 %

Percentages of epochs with DD\_DOP over 10.00: 0 %

DOP over Tol: 1.46 %

Baseline Distances (km):

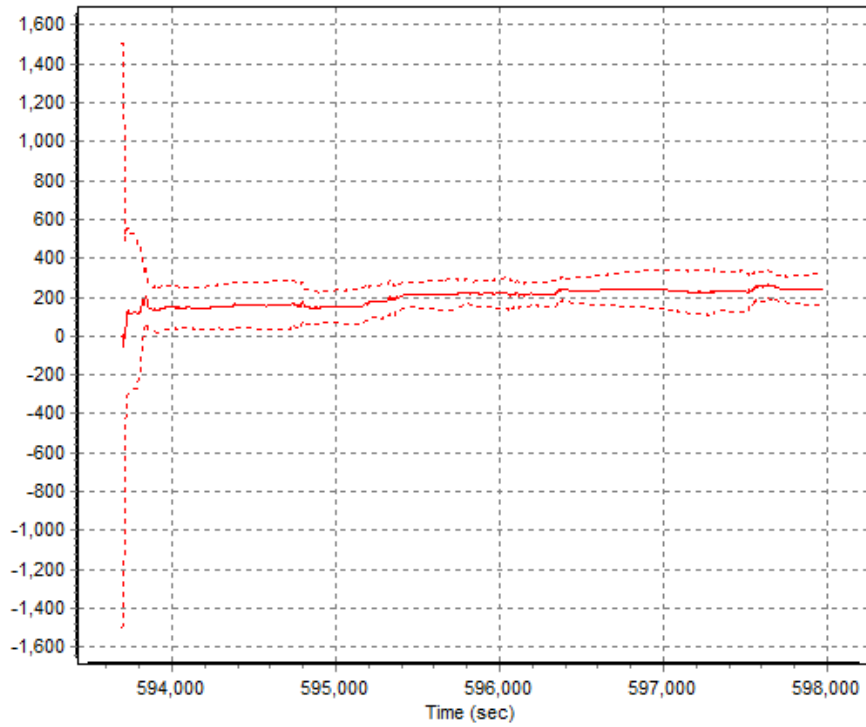
Maximum: 46.96  
Minimum: 3.05  
Average: 21.00  
First Epoch: 37.07  
Last Epoch: 19.08

### CORS Base Stations

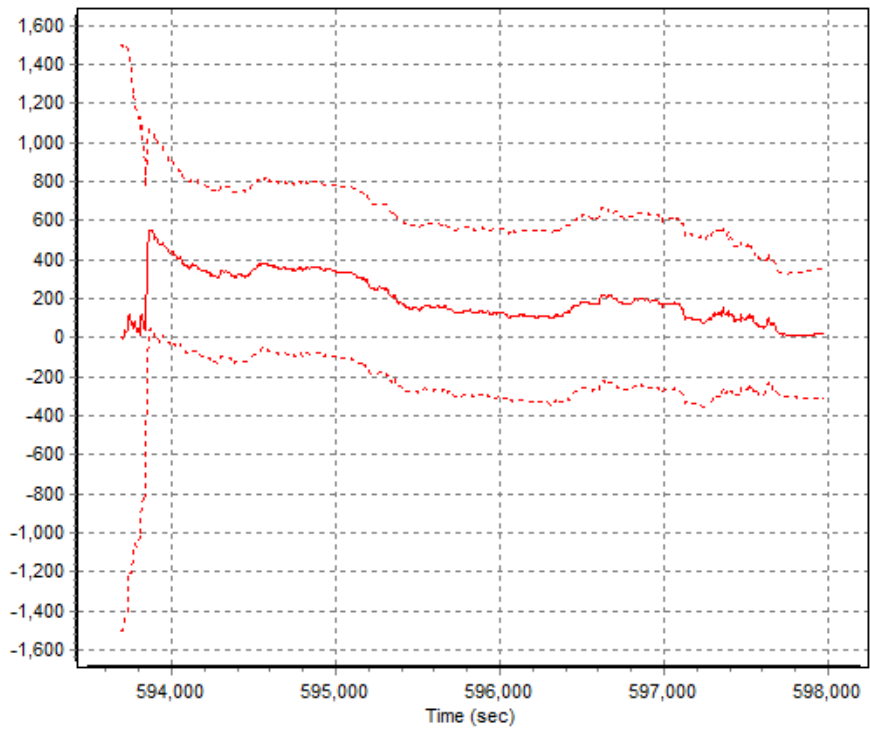
Station	Original			Adjusted		
	Latitude	Longitude	Altitude	Latitude	Longitude	Altitude
ZDC1	N39°06'05.74451"	W77°32'33.88933"	79.596	N39°06'05.74457"	W77°32'33.88932"	79.607
WVSH	N39°59'49.12889"	W80°40'46.38720"	383.315	N39°59'49.12900"	W80°40'46.38728"	383.309
WVNR	N38°53'44.53445"	W79°51'30.29435"	581.501	N38°53'44.53444"	W79°51'30.29436"	581.496
WVMF	N39°04'32.37373"	W78°55'57.02161"	312.272	N39°04'32.37380"	W78°55'57.02149"	312.274
WVGB	N38°25'48.45398"	W79°49'01.31918"	811.181	N38°25'48.45370"	W79°49'01.31906"	811.179
WVCV	N39°00'55.10519"	W79°27'25.03348"	967.96	N39°00'55.10456"	W79°27'25.03251"	967.959
WVBU	N39°20'16.85129"	W78°54'48.61064"	198.787	N39°20'16.85129"	W78°54'48.61064"	198.787
WVBR	N39°18'28.91381"	W80°16'38.64509"	268.991	N39°18'28.91339"	W80°16'38.64421"	268.993
PAWG	N40°18'19.27228"	W79°30'22.40232"	334.926	N40°18'19.27222"	W79°30'22.40215"	334.935
PAII	N40°36'20.27853"	W79°11'09.35329"	377.906	N40°36'20.27860"	W79°11'09.35315"	377.906
PAGW	N39°53'56.14859"	W80°09'36.40313"	262.753	N39°53'56.14785"	W80°09'36.40190"	262.754
PAFU	N39°55'35.71865"	W79°41'50.53508"	326.747	N39°55'35.71860"	W79°41'50.53505"	326.762
PAFM	N39°57'44.94246"	W77°58'43.64065"	285.509	N39°57'44.94244"	W77°58'43.64038"	285.497
PAFC	N39°56'49.44386"	W77°40'11.19017"	175.871	N39°56'49.44371"	W77°40'11.19019"	175.873
PAAP	N40°26'40.28545"	W79°57'32.15471"	312.509	N40°26'40.28551"	W79°57'32.15482"	312.511
LWX1	N38°58'21.66394"	W77°29'18.98432"	60.728	N38°58'21.66390"	W77°29'18.98475"	60.744
LOYY	N38°53'18.57661"	W78°29'56.96630"	220.904	N38°53'18.57675"	W78°29'56.96638"	220.914
LOYS	N39°38'46.42051"	W78°43'47.92091"	168.093	N39°38'46.42064"	W78°43'47.92088"	168.075
LOYQ	N39°38'02.62363"	W77°42'51.12035"	127.23	N39°38'02.62398"	W77°42'51.12023"	127.212
LOYJ	N38°28'20.92222"	W78°00'36.16887"	103.853	N38°28'20.92232"	W78°00'36.16860"	103.857
LOYC	N39°07'12.57573"	W78°12'02.63165"	201.807	N39°07'12.57558"	W78°12'02.63175"	201.838
LOYA	N38°25'33.92918"	W78°53'21.79750"	363.919	N38°25'33.92915"	W78°53'21.79761"	363.965
ALLG	N39°39'13.91860"	W78°43'50.52687"	174.48	N39°39'13.91869"	W78°43'50.52666"	174.497



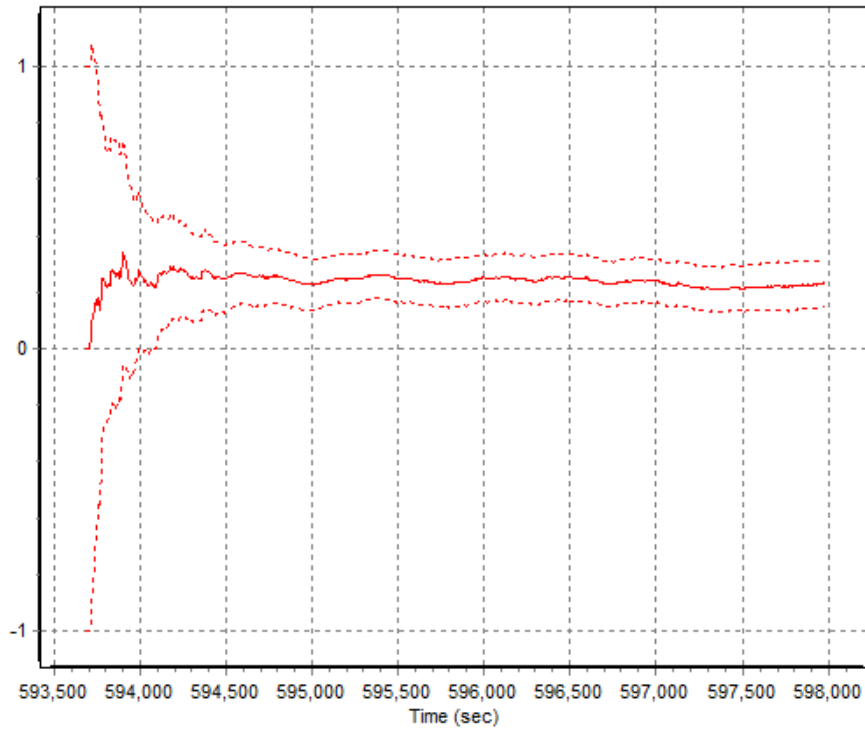
x accelerometer bias (micro-g)



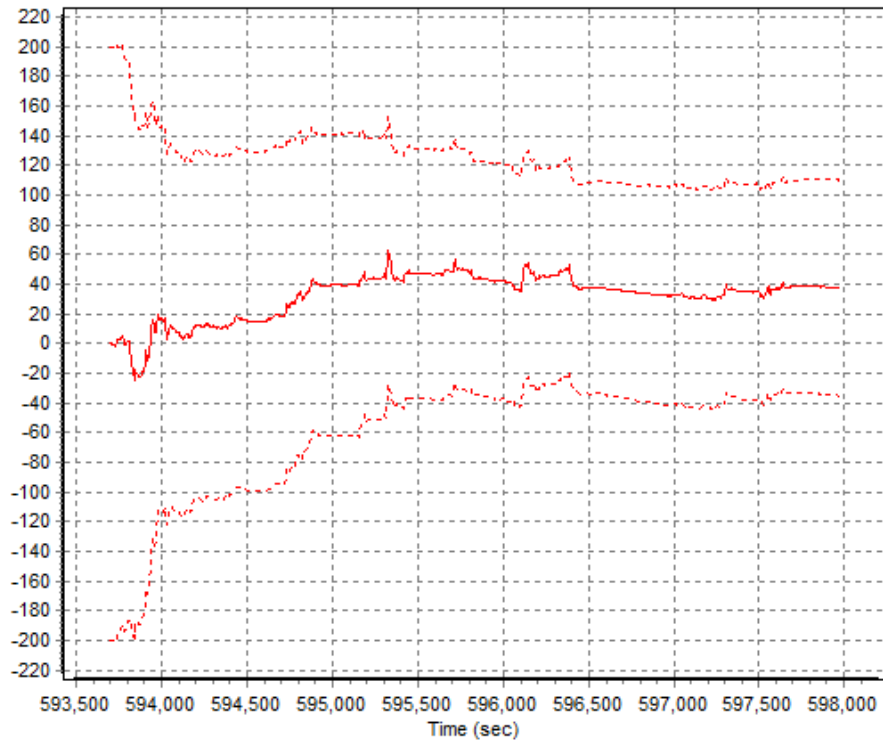
x accelerometer scale error (ppm)



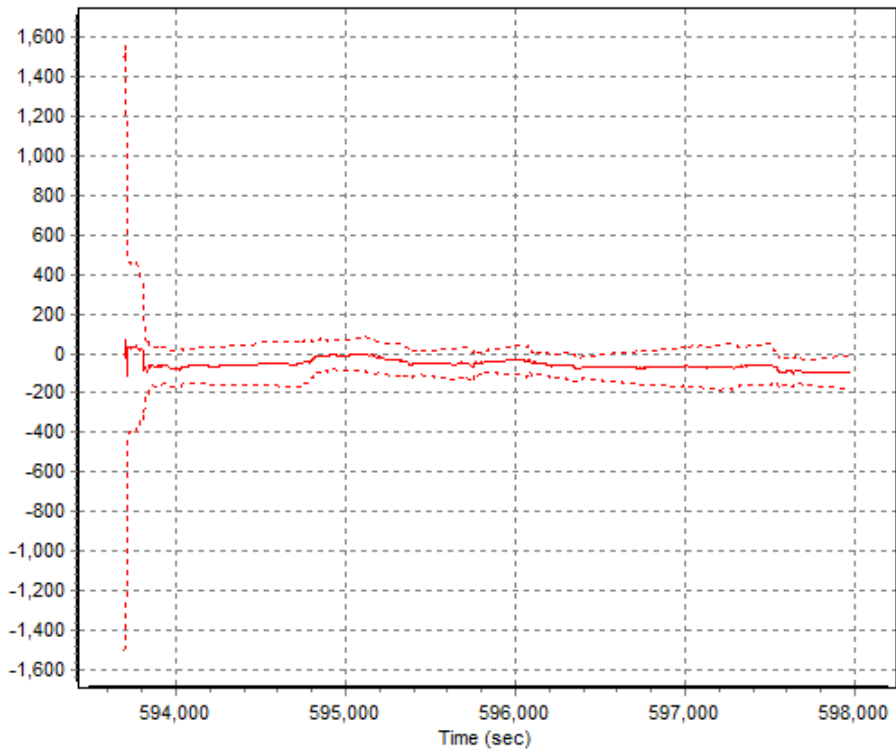
x gyro bias (deg/hr)



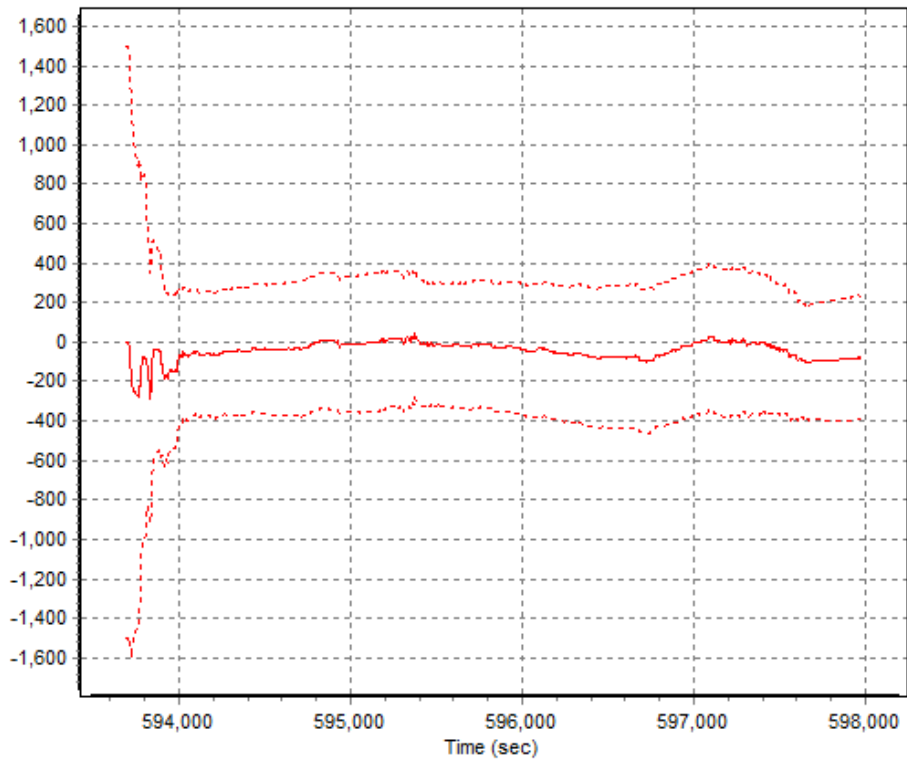
x gyro scale error (ppm)



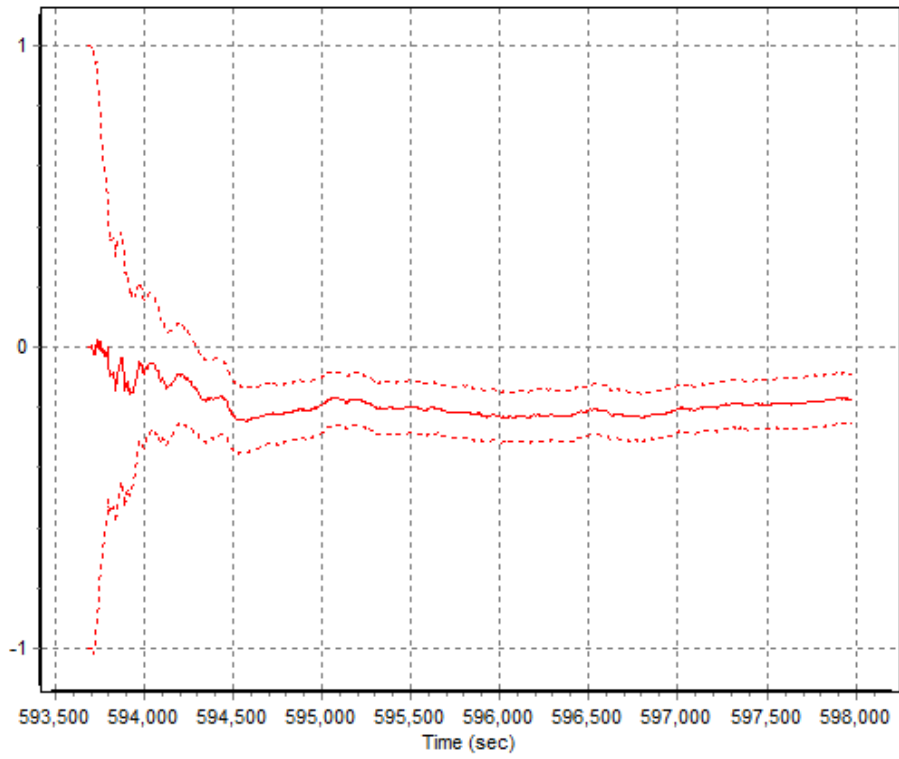
**y accelerometer bias (micro-g)**



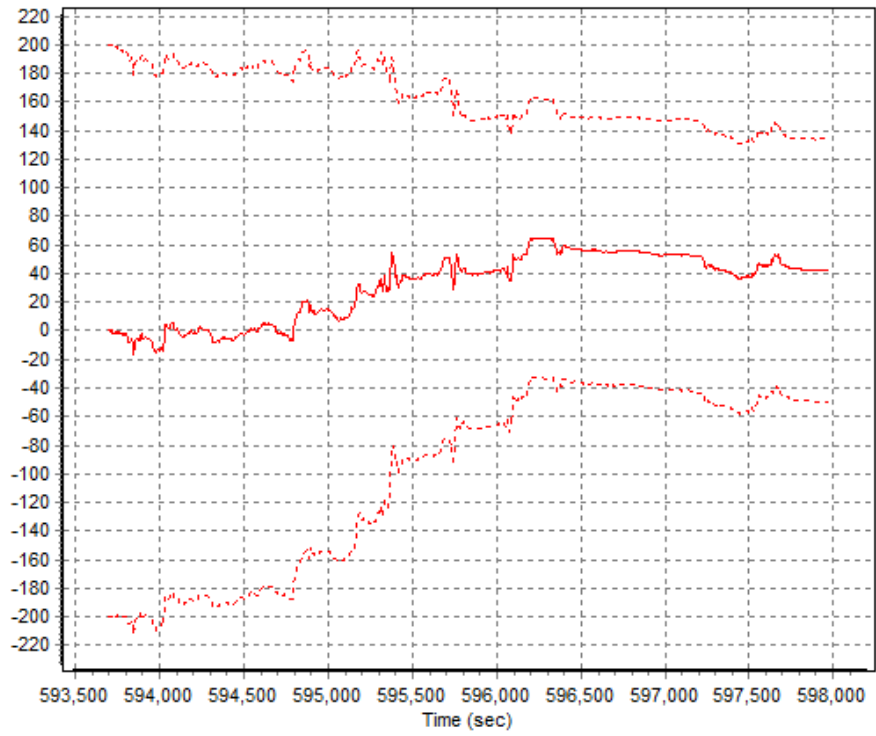
**y accelerometer scale error (ppm)**



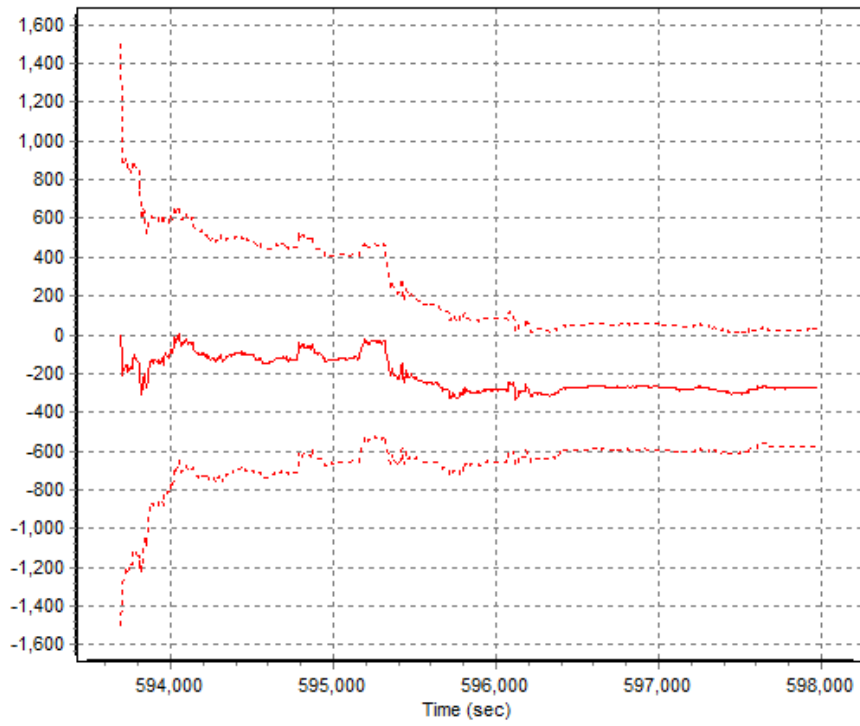
y gyro bias (deg/hr)



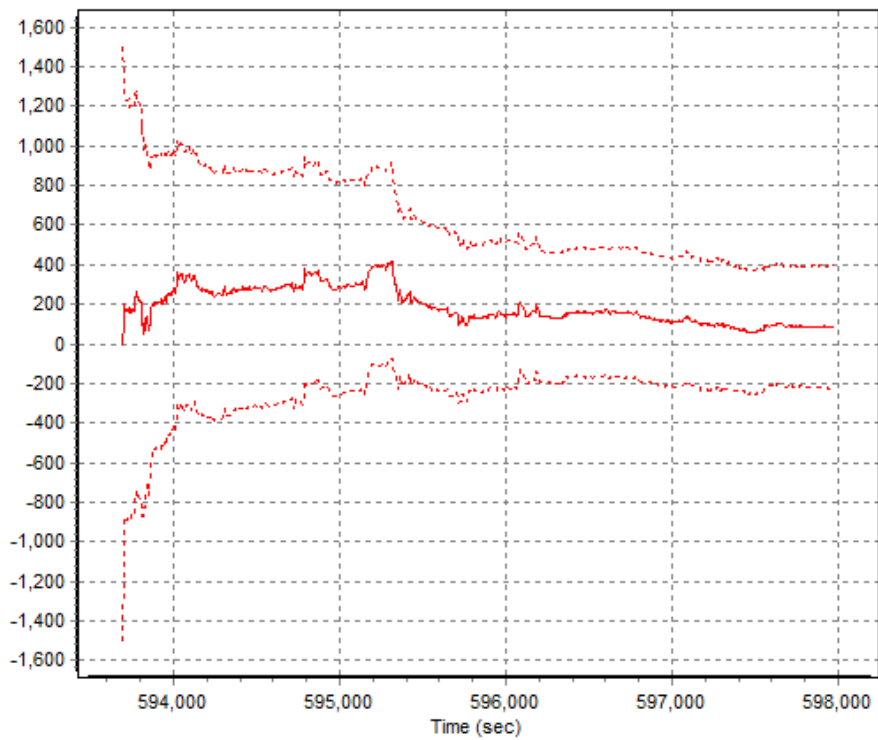
y gyro scale error (ppm)



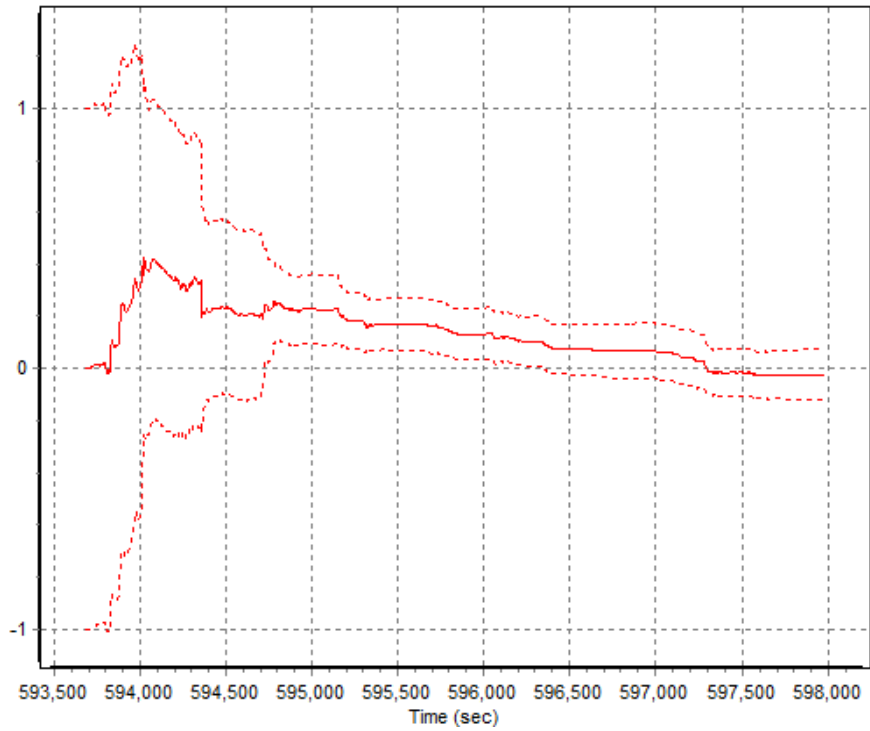
**z accelerometer bias (micro-g)**



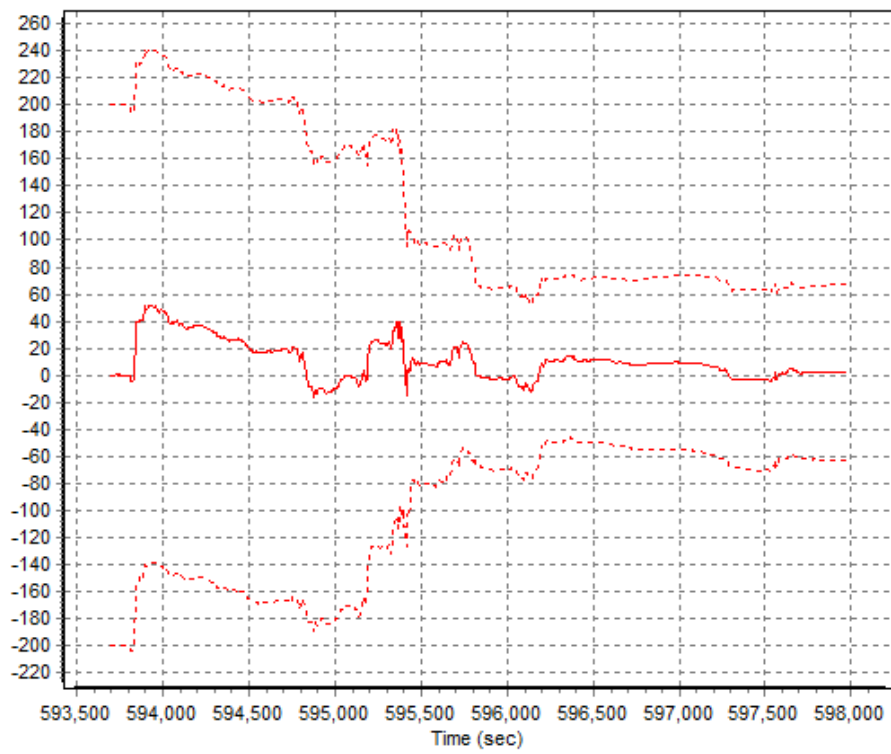
**z accelerometer scale error (ppm)**

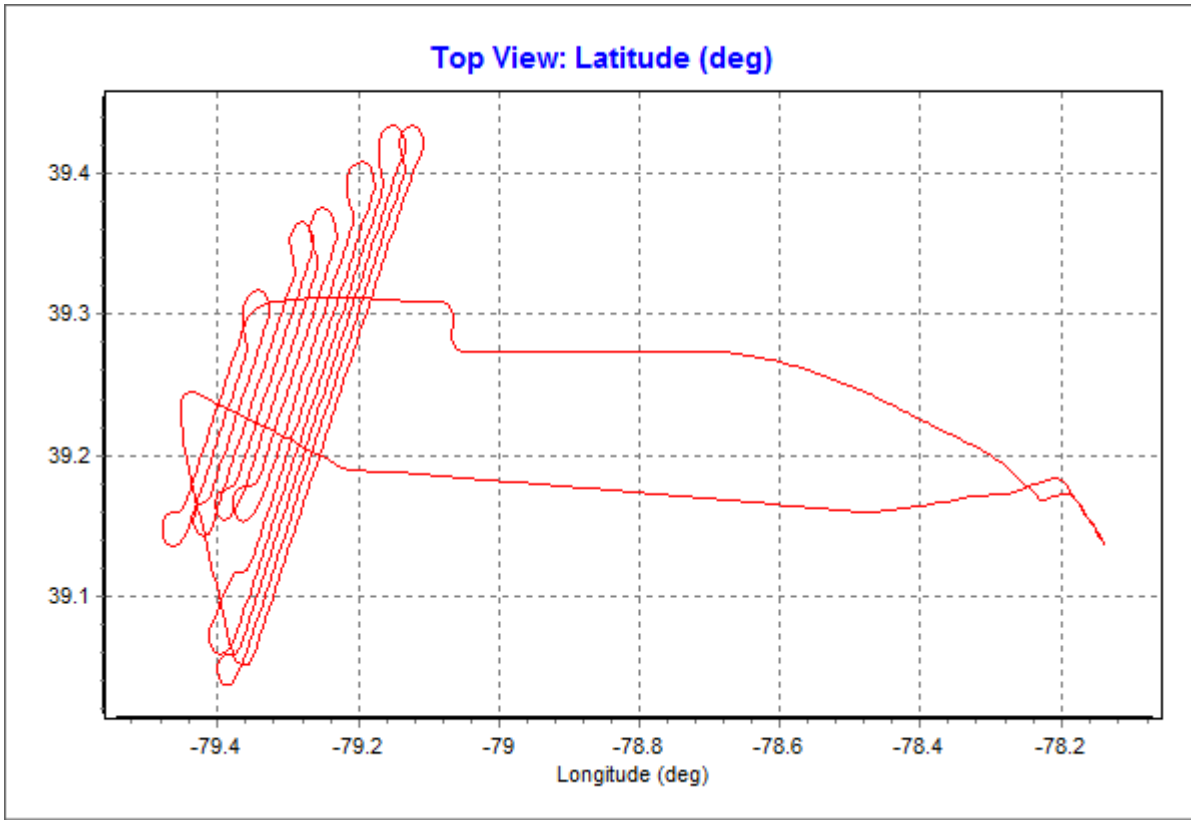


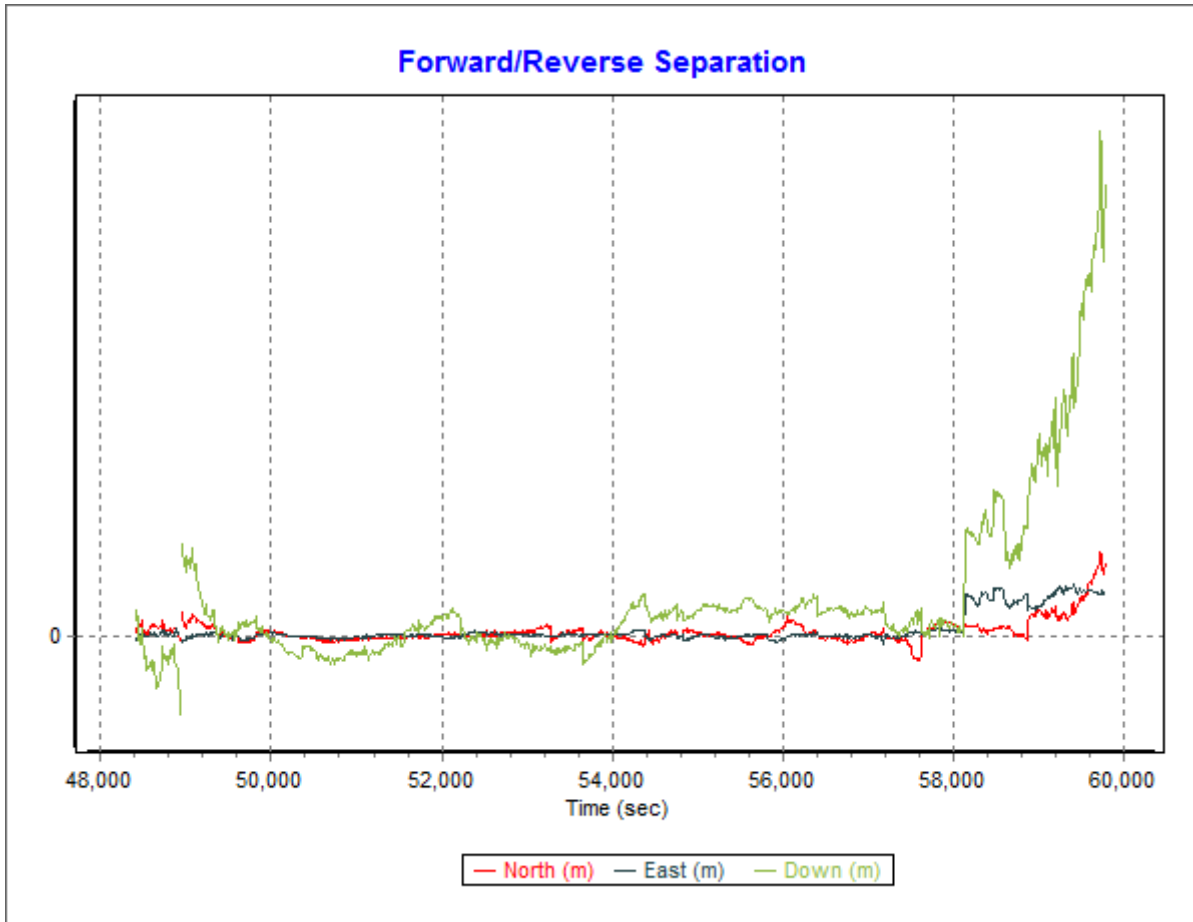
**z gyro bias (deg/hr)**



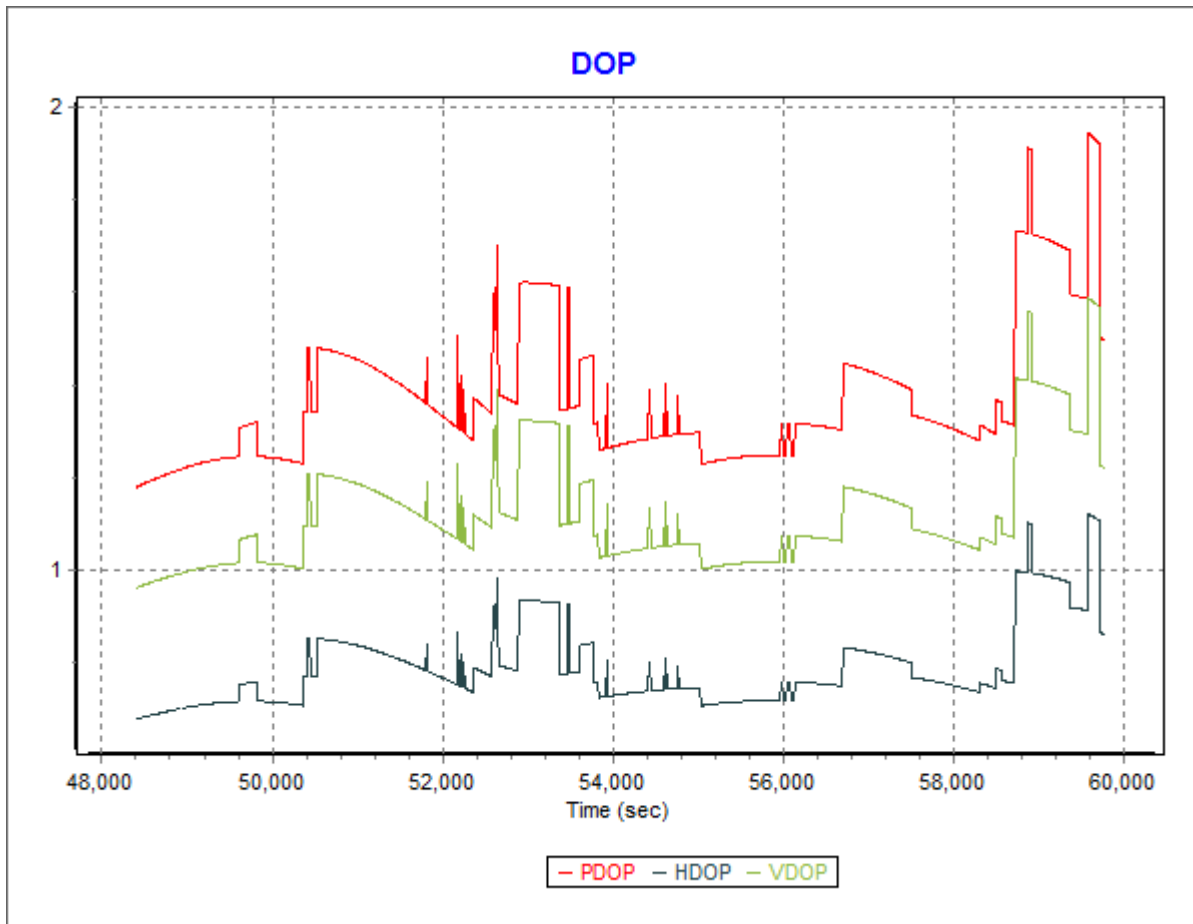
**z gyro scale error (ppm)**

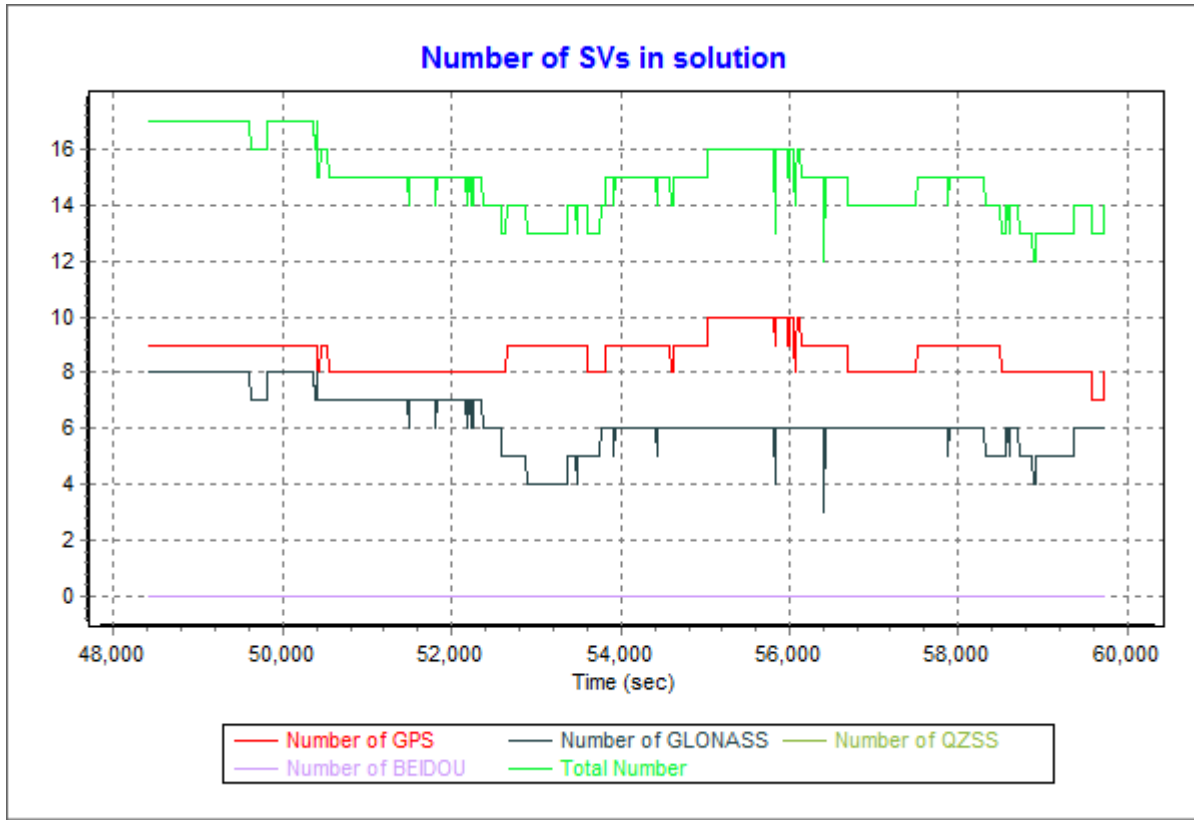












### Processing Summary Information

Program: POSPac MMS  
Version: 7.2.5934.15637  
Project: \\sa\data\216027\20161113\_WV\_A

Solution Type: IN-Fusion SmartBase

Fixed: 11364 (99.99%)  
Float: 0 (0.0%)  
No Solution: 1 (0.01%)

Number of Epochs:

Total in RAW file: 11403  
No processed position: 38

Fwd/Rev Separation RMS Values (m):

East: 0.027  
North: 0.021  
Height: 0.149

Fwd/Rev Sep. RMS for 25%-75% weighting (m): 5702

East: 0.003  
North: 0.008  
Height: 0.035

**Position Standard Deviation Percentages:**

0.00 - 0.10 m: 99.27 %  
 0.10 - 0.30 m: 0.73 %  
 0.30 - 1.00 m: 0.0 %  
 1.00 - 5.00 m: 0.0 %  
 5.00 m + over: 0.0 %

Percentages of epochs with DD\_DOP over 10.00: 0 %

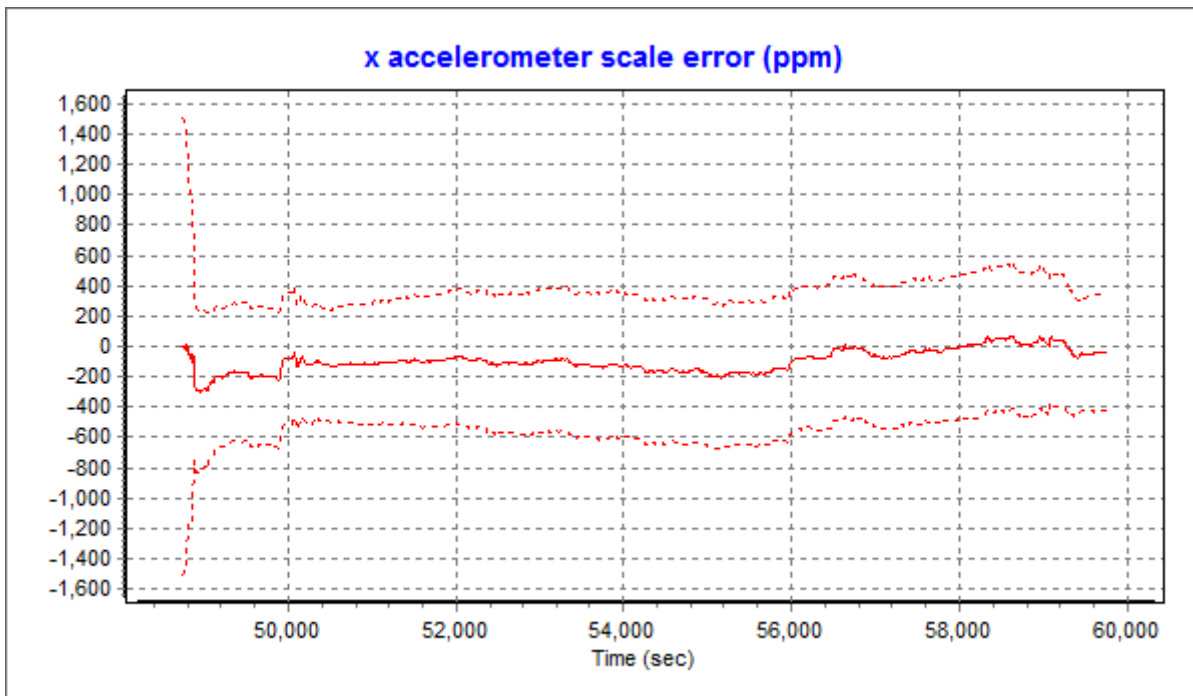
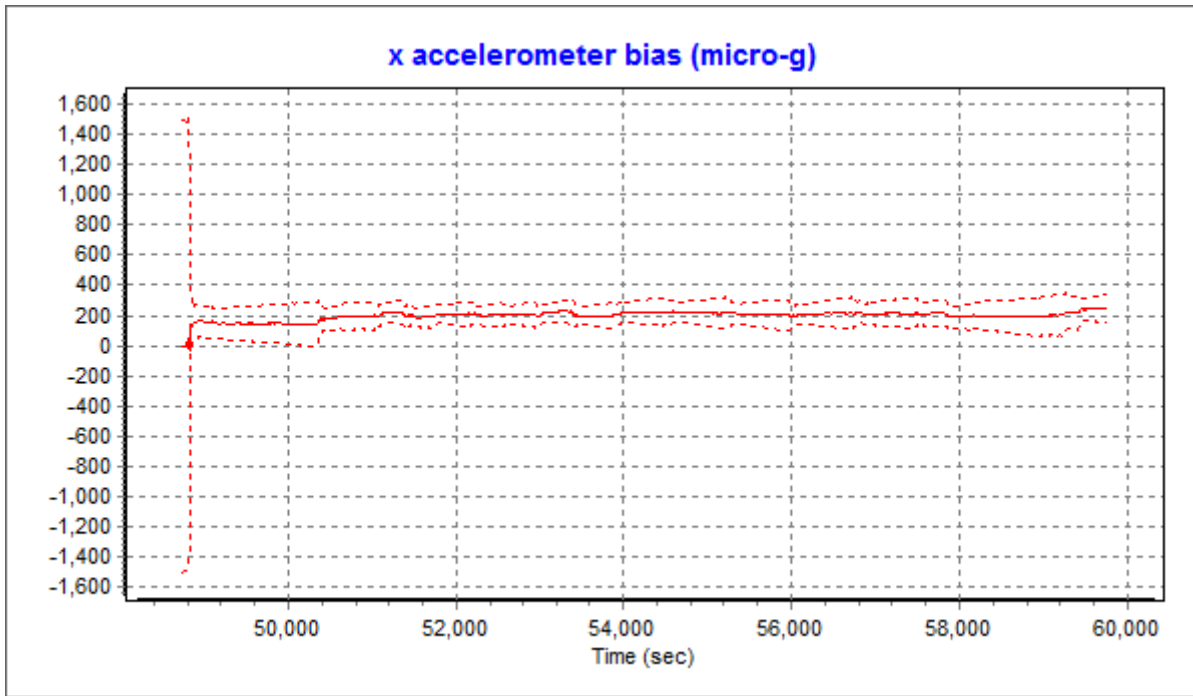
DOP over Tol: 1.37 %

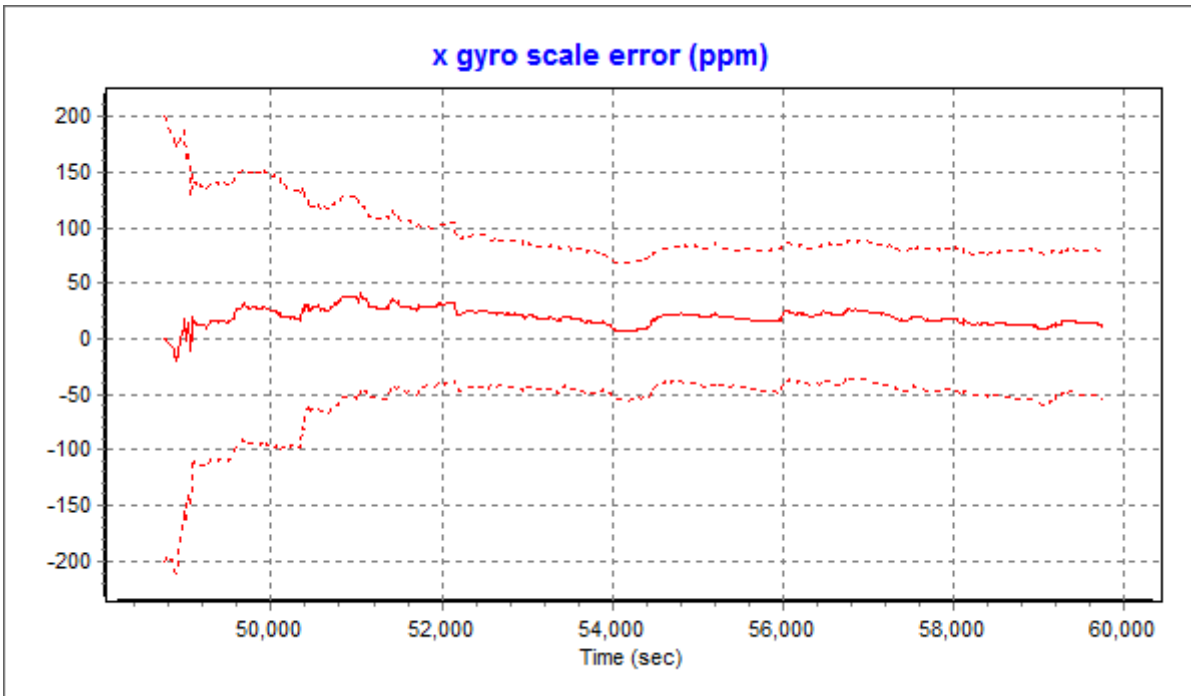
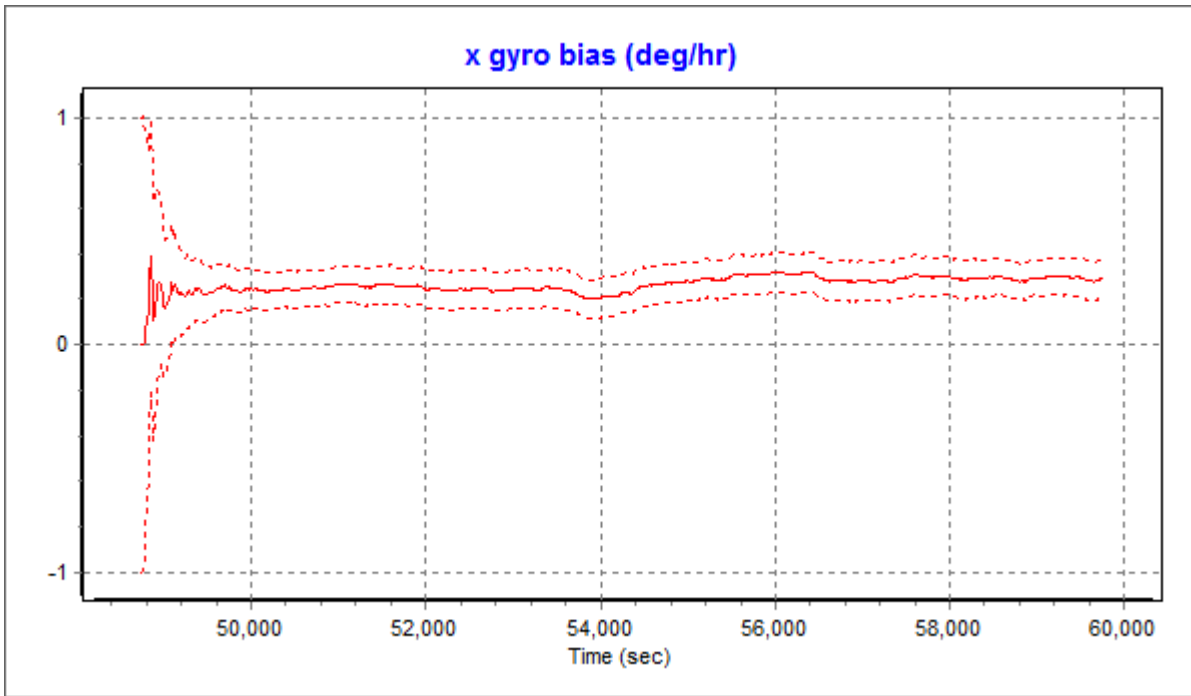
**Baseline Distances (km):**

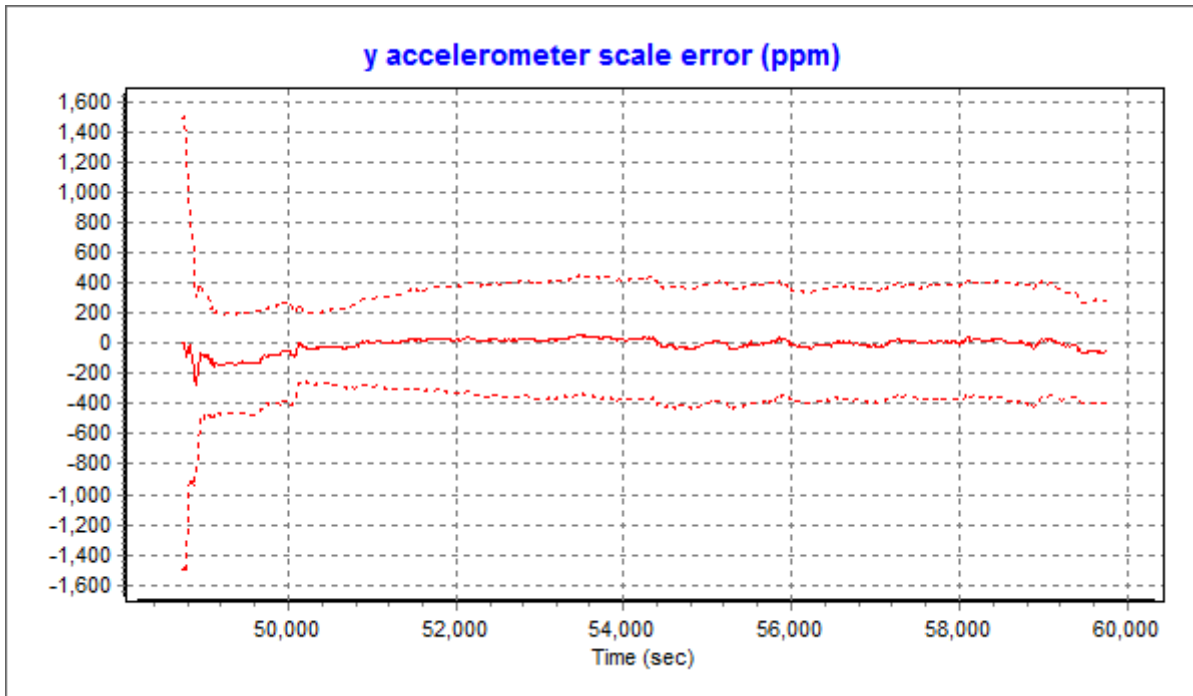
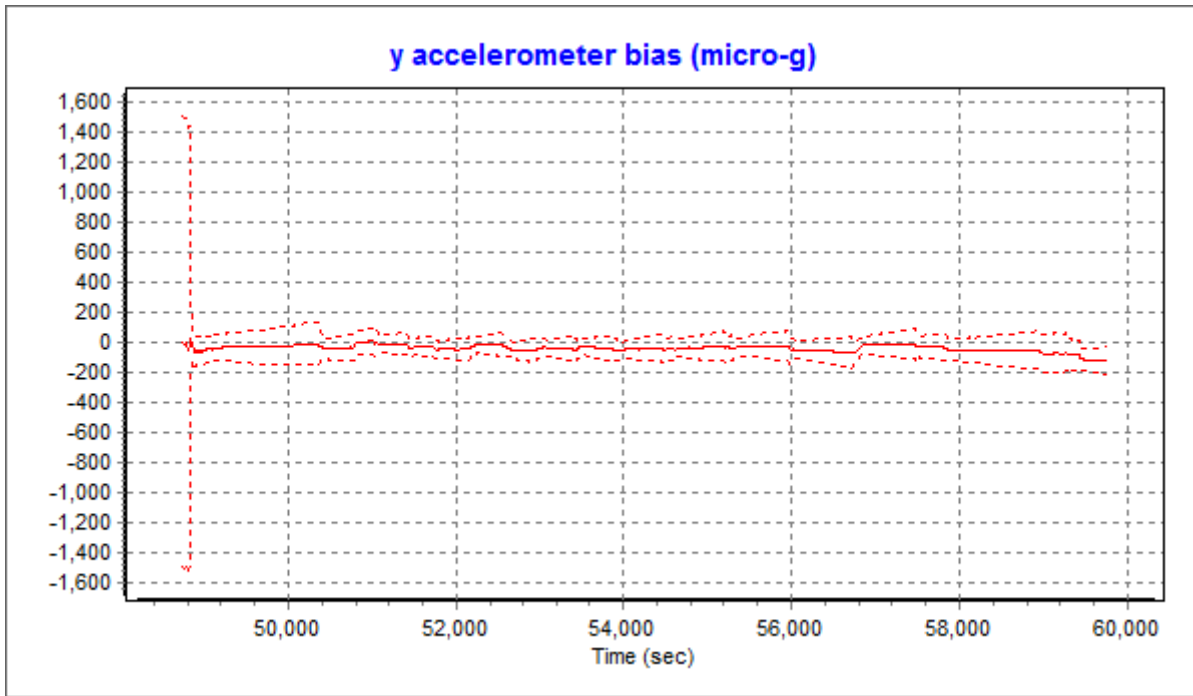
Maximum: 78.60  
 Minimum: 4.58  
 Average: 31.98  
 First Epoch: 77.72  
 Last Epoch: 19.08

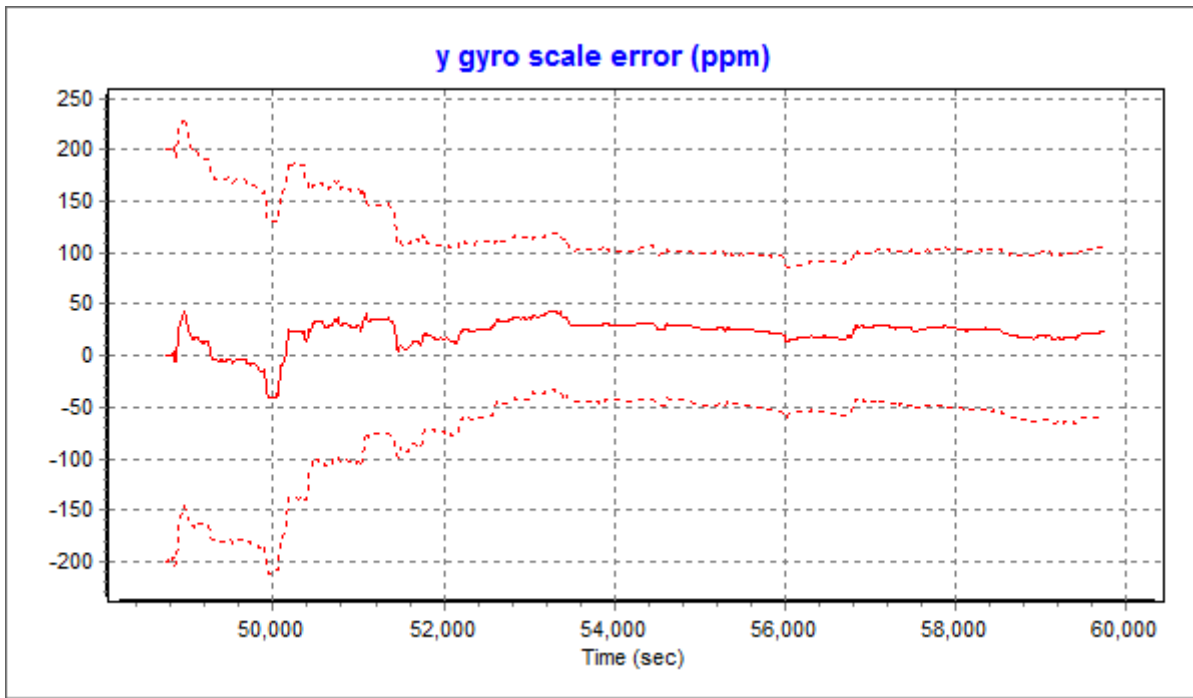
**CORS Base Stations**

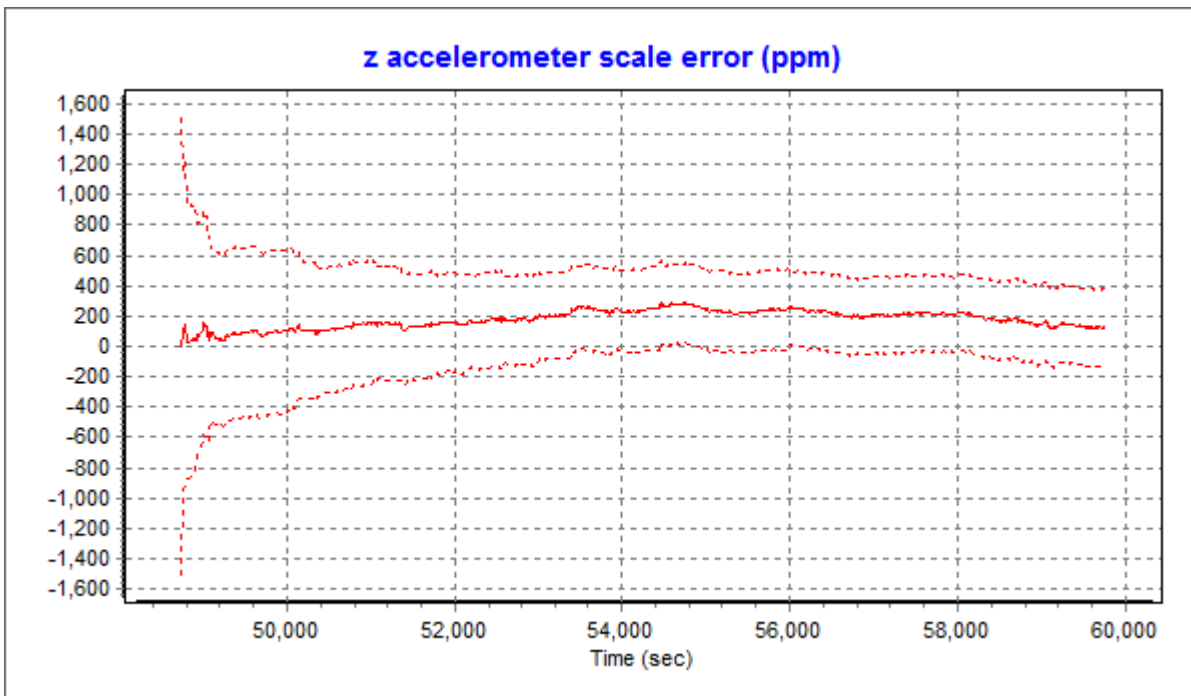
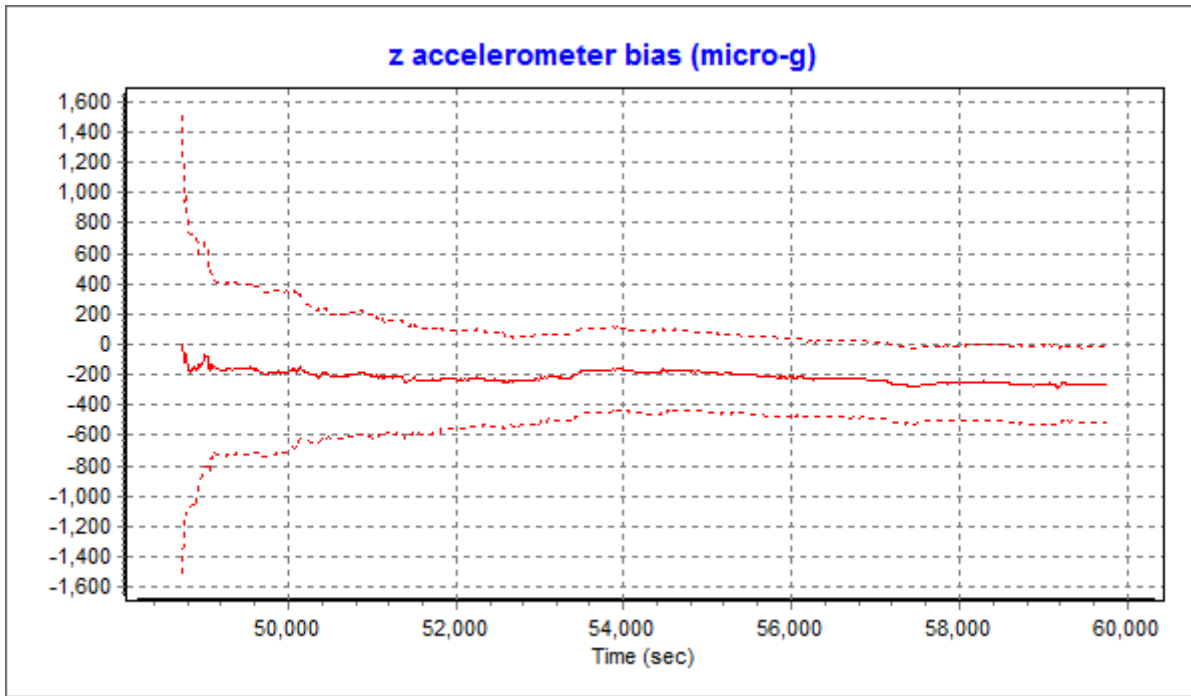
Station	Original			Adjusted		
	Latitude	Longitude	Altitude	Latitude	Longitude	Altitude
LOYA	N38°25'33.92935"	W78°53'21.79800"	363.924	N38°25'33.92935"	W78°53'21.79800"	363.924
ZDC1	N39°06'05.74451"	W77°32'33.88933"	79.596	N39°06'05.74481"	W77°32'33.88988"	79.568
PAWG	N40°18'19.27228"	W79°30'22.40232"	334.926	N40°18'19.27243"	W79°30'22.40308"	334.892
PAGW	N39°53'56.14859"	W80°09'36.40313"	262.753	N39°53'56.14806"	W80°09'36.40273"	262.71
PAFU	N39°55'35.71865"	W79°41'50.53509"	326.747	N39°55'35.71883"	W79°41'50.53568"	326.72
PAFM	N39°57'44.94246"	W77°58'43.64066"	285.509	N39°57'44.94267"	W77°58'43.64128"	285.457
LWX1	N38°58'21.66394"	W77°29'18.98433"	60.728	N38°58'21.66414"	W77°29'18.98505"	60.701
LOYY	N38°53'18.57661"	W78°29'56.96630"	220.904	N38°53'18.57698"	W78°29'56.96695"	220.871
LOYS	N39°38'46.42051"	W78°43'47.92091"	168.093	N39°38'46.42084"	W78°43'47.92165"	168.033
LOYQ	N39°38'02.62363"	W77°42'51.12036"	127.23	N39°38'02.62417"	W77°42'51.12102"	127.17
LOYP	N38°01'13.85597"	W79°01'07.26280"	392.062	N38°01'13.85600"	W79°01'07.26336"	392.052
LOYJ	N38°28'20.92222"	W78°00'36.16887"	103.853	N38°28'20.92248"	W78°00'36.16912"	103.815
LOYC	N39°07'12.57573"	W78°12'02.63165"	201.807	N39°07'12.57574"	W78°12'02.63245"	201.803
ALLG	N39°39'13.91860"	W78°43'50.52687"	174.48	N39°39'13.91887"	W78°43'50.52751"	174.458



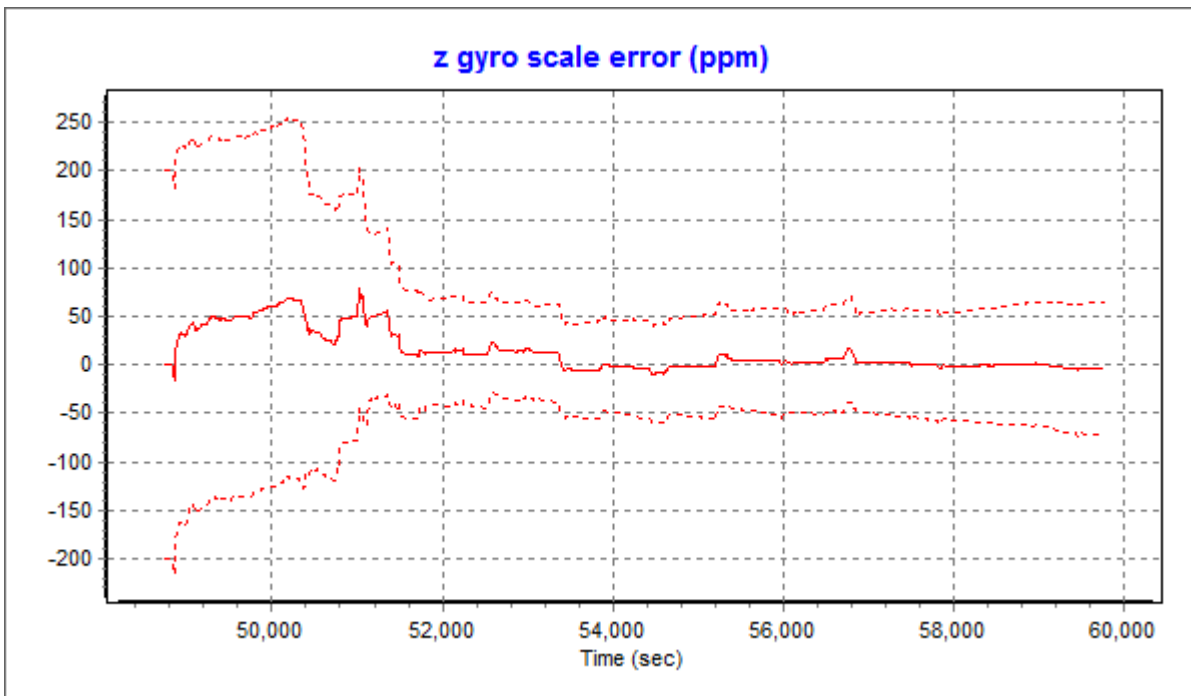
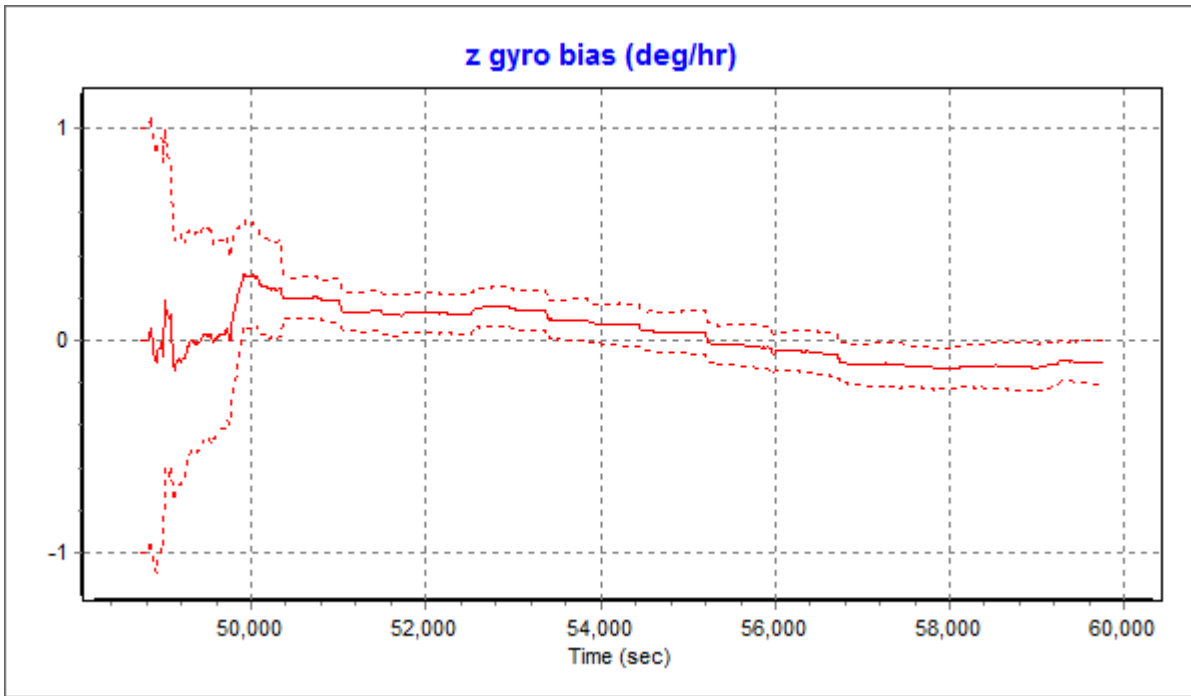


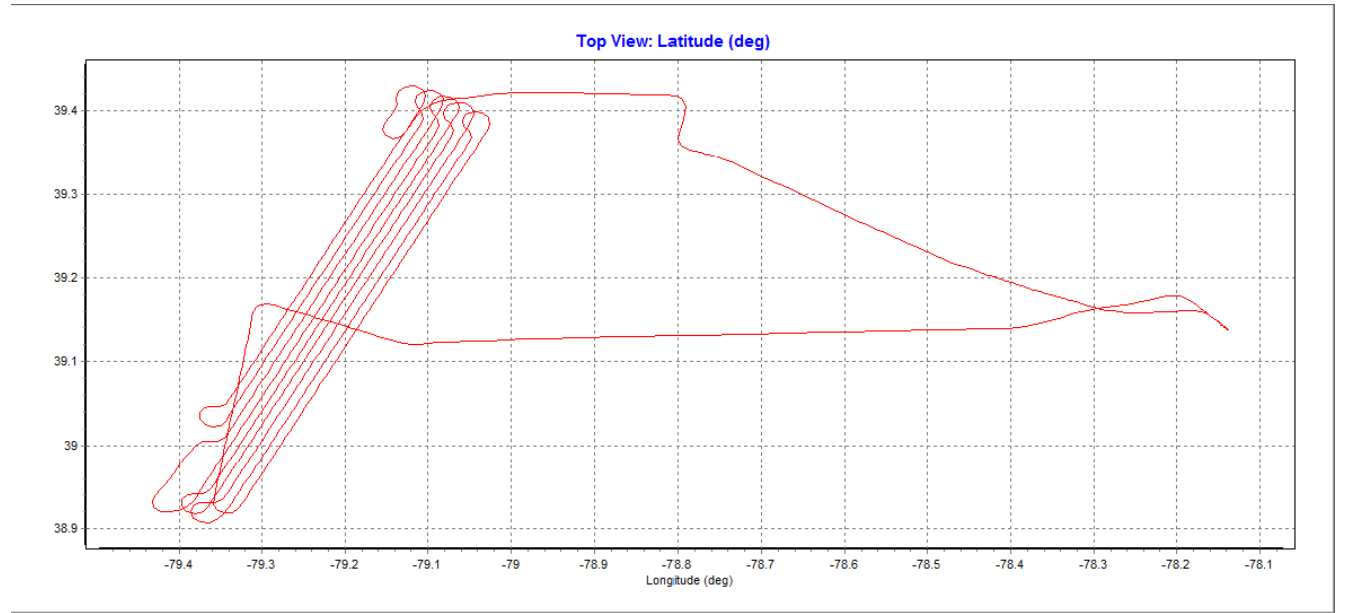


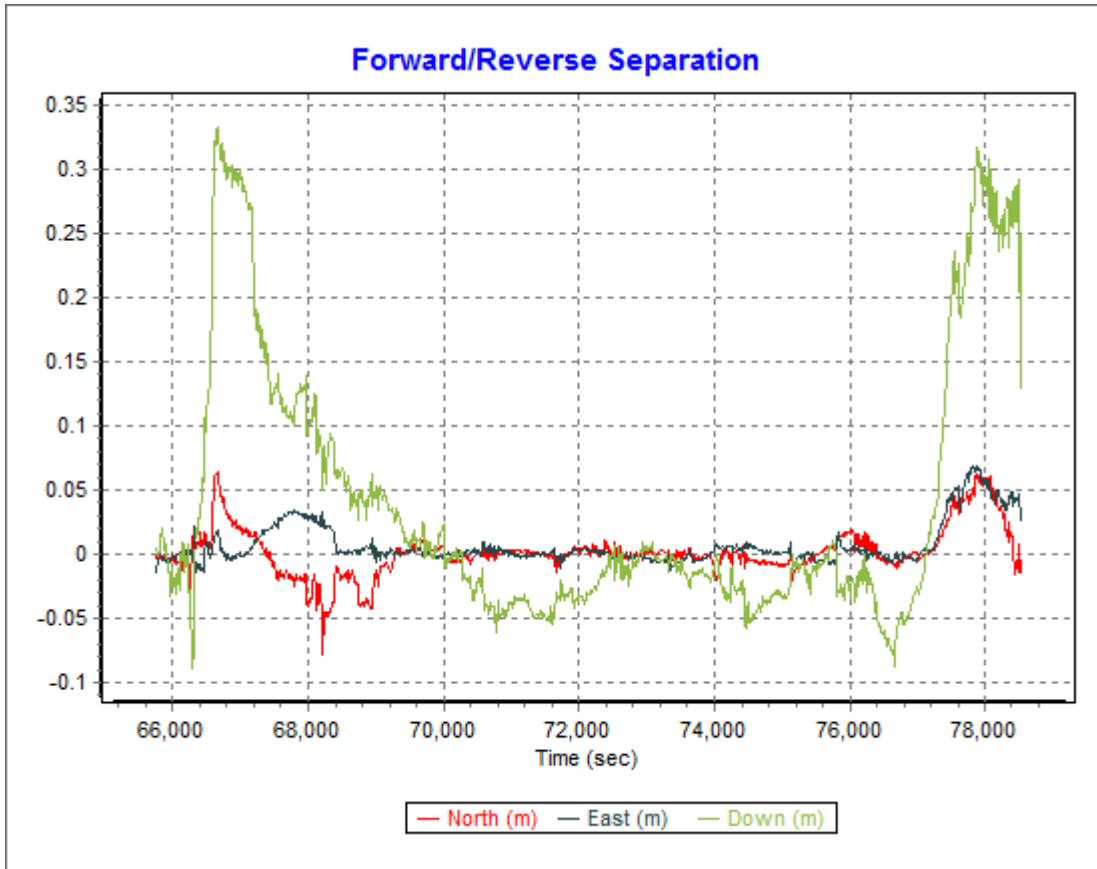


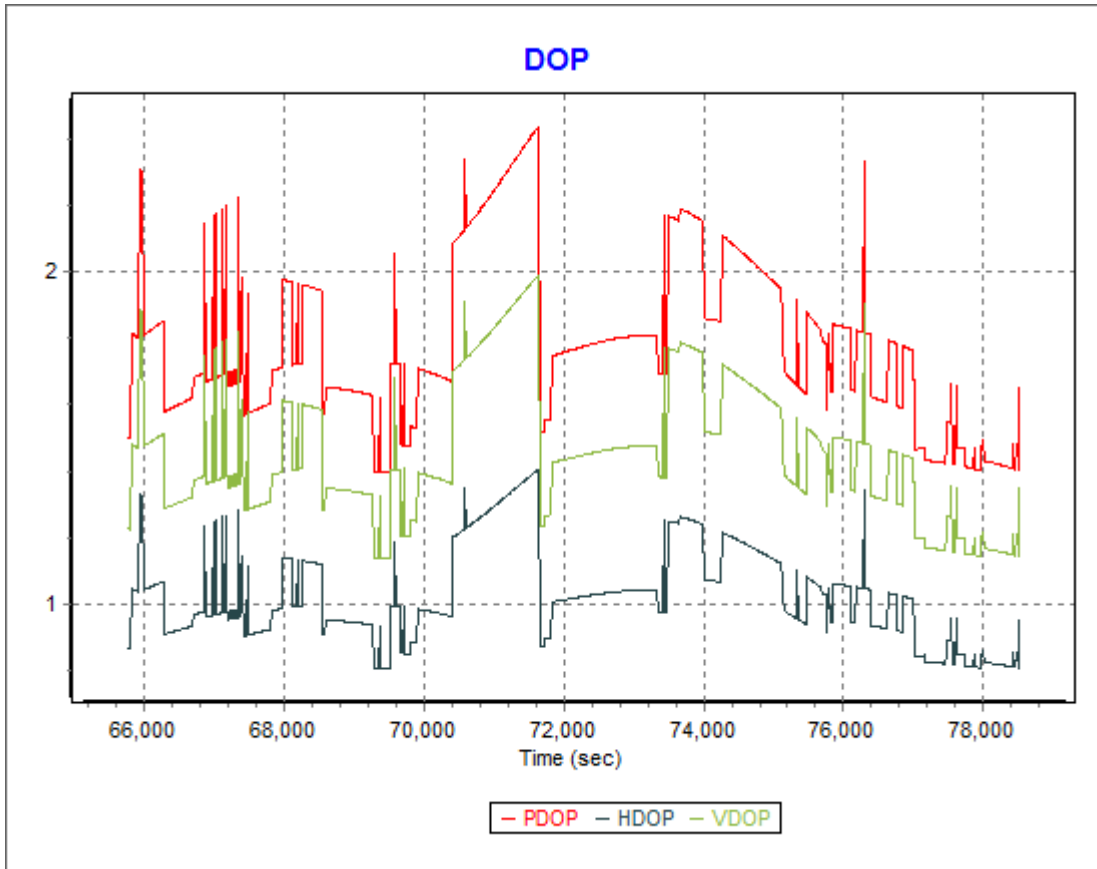


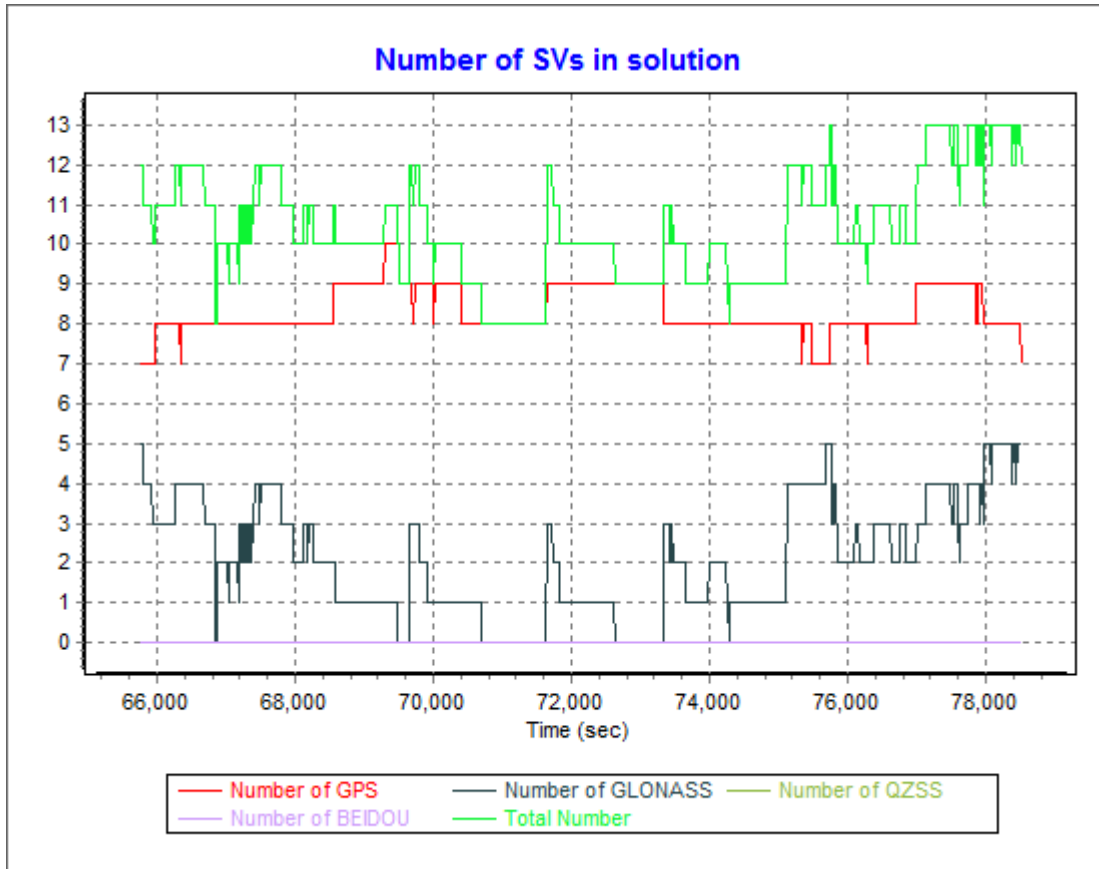












### Processing Summary Information

Program: POSPac MMS  
Version: 7.2.5934.15637  
Project: \\sa\data\216027\20161113\_WV\_B

Solution Type: IN-Fusion SmartBase

Fixed: 12798 (99.99%)  
Float: 0 (0.0%)  
No Solution: 1 (0.01%)

Number of Epochs:

Total in RAW file: 12803  
No processed position: 5

Fwd/Rev Separation RMS Values (m):

East: 0.018  
North: 0.019  
Height: 0.112

Fwd/Rev Sep. RMS for 25%-75% weighting (m) 6402 occurrences

East: 0.004  
North: 0.006  
Height: 0.028

Position Standard Deviation Percentages:

0.00 - 0.10 m: 100.0 %  
0.10 - 0.30 m: 0.0 %  
0.30 - 1.00 m: 0.0 %  
1.00 - 5.00 m: 0.0 %  
5.00 m + over: 0.0 %

Percentages of epochs with DD\_DOP over 10.00: 0 %

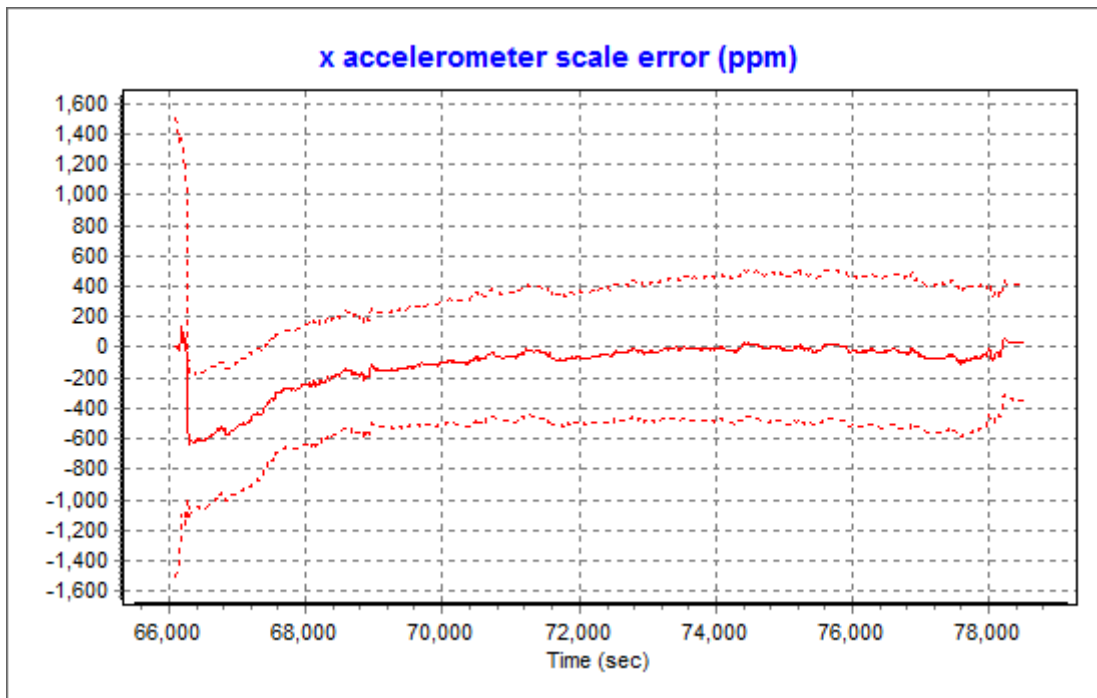
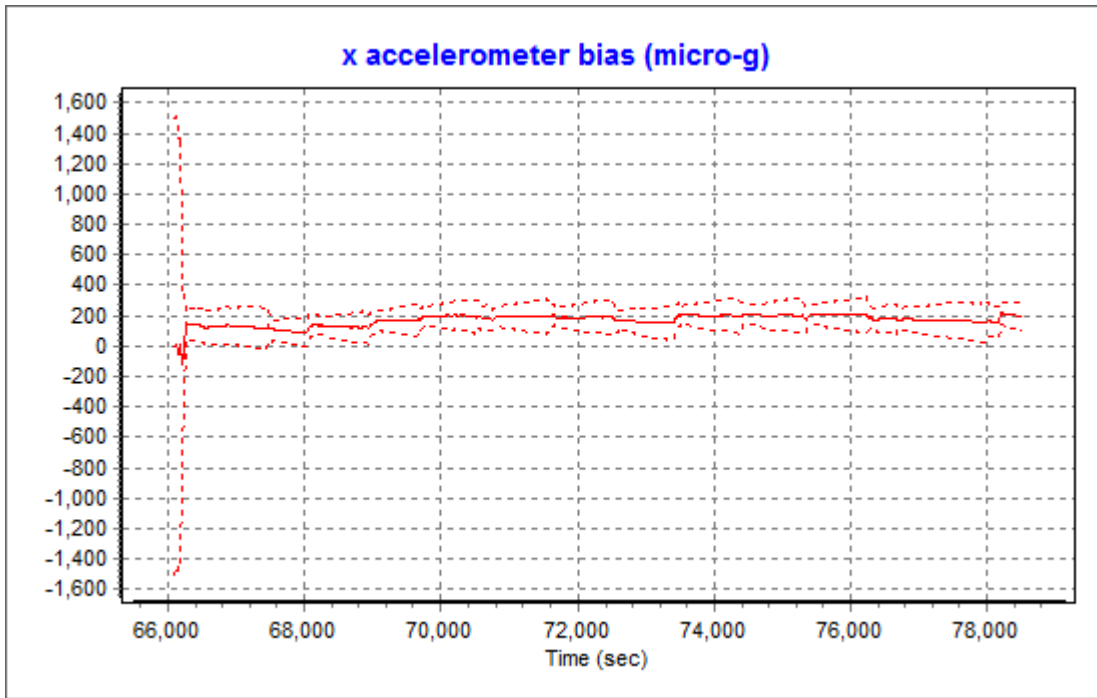
DOP over Tol: 1.78 %

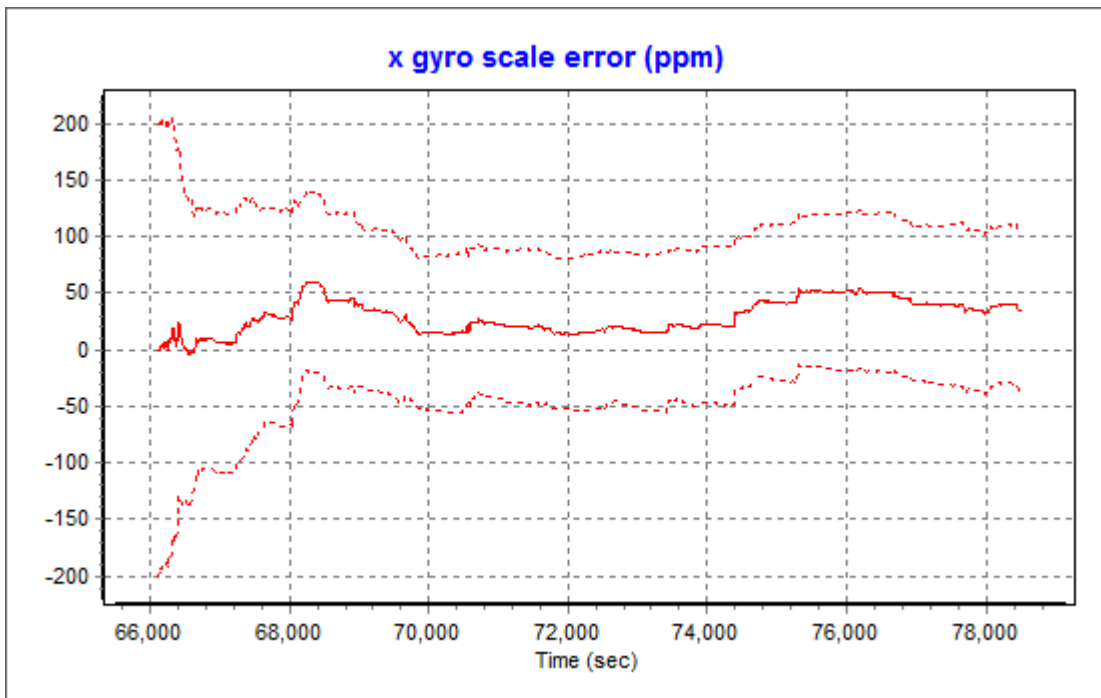
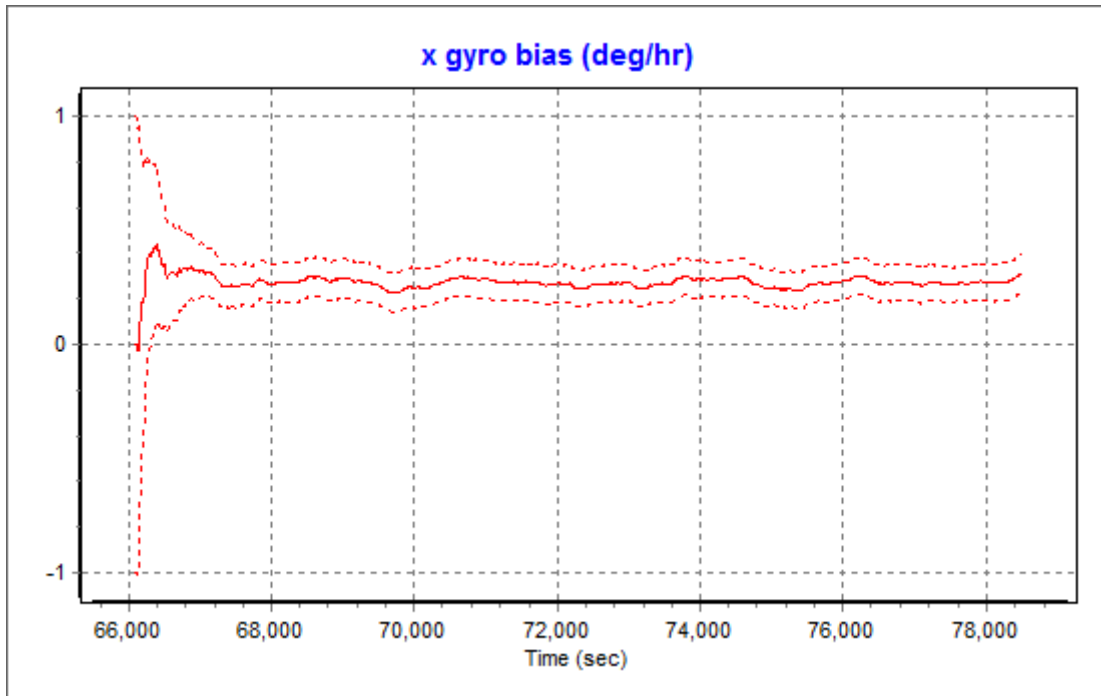
Baseline Distances (km):

Maximum: 74.63  
Minimum: 6.00  
Average: 32.04  
First Epoch: 73.76  
Last Epoch: 73.77

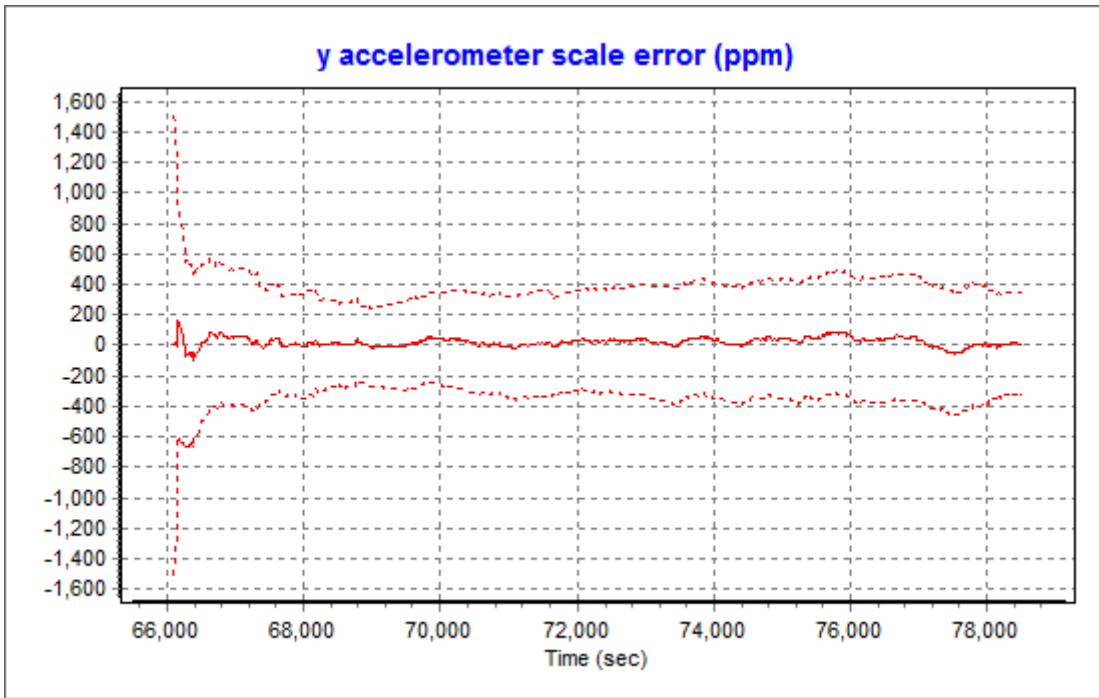
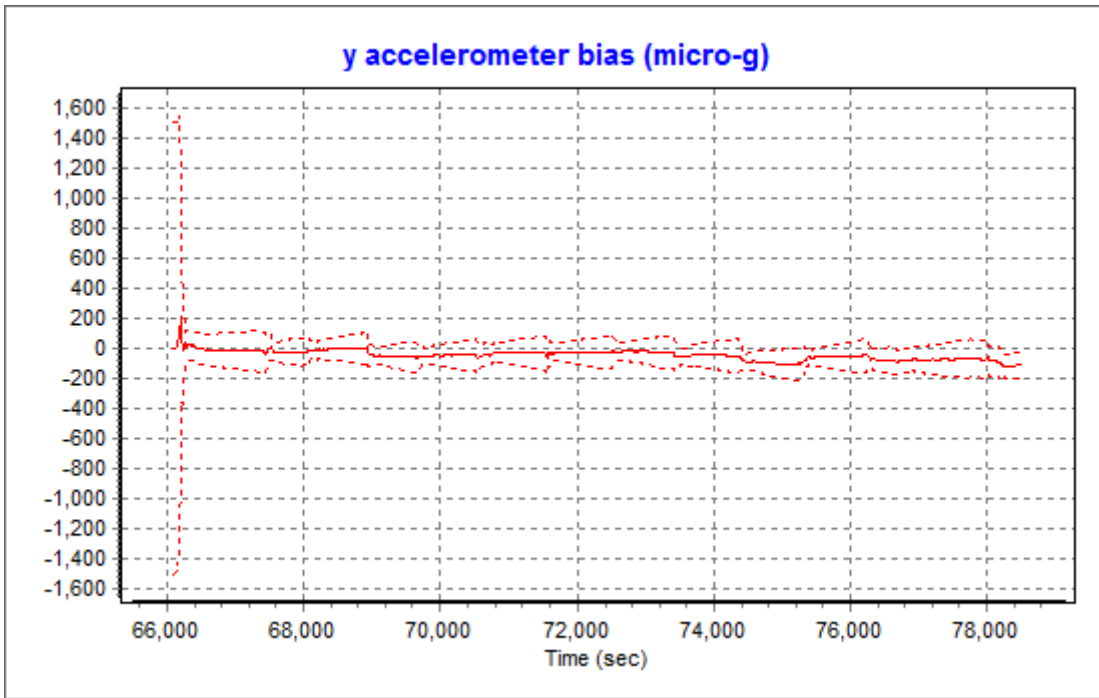
### CORS Base Stations

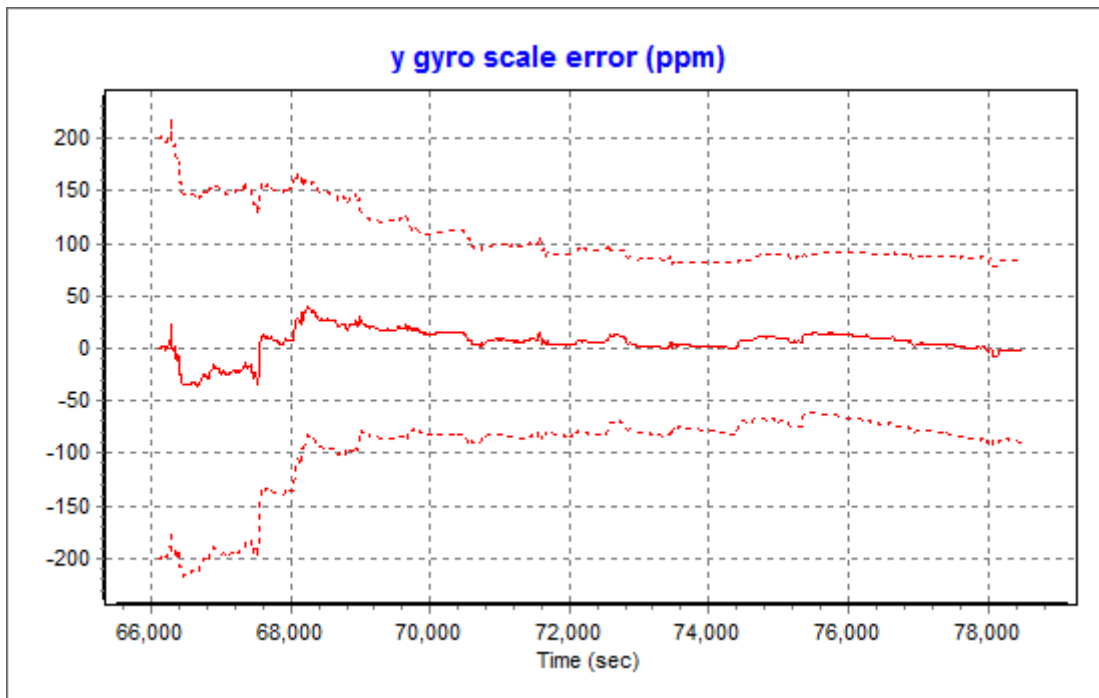
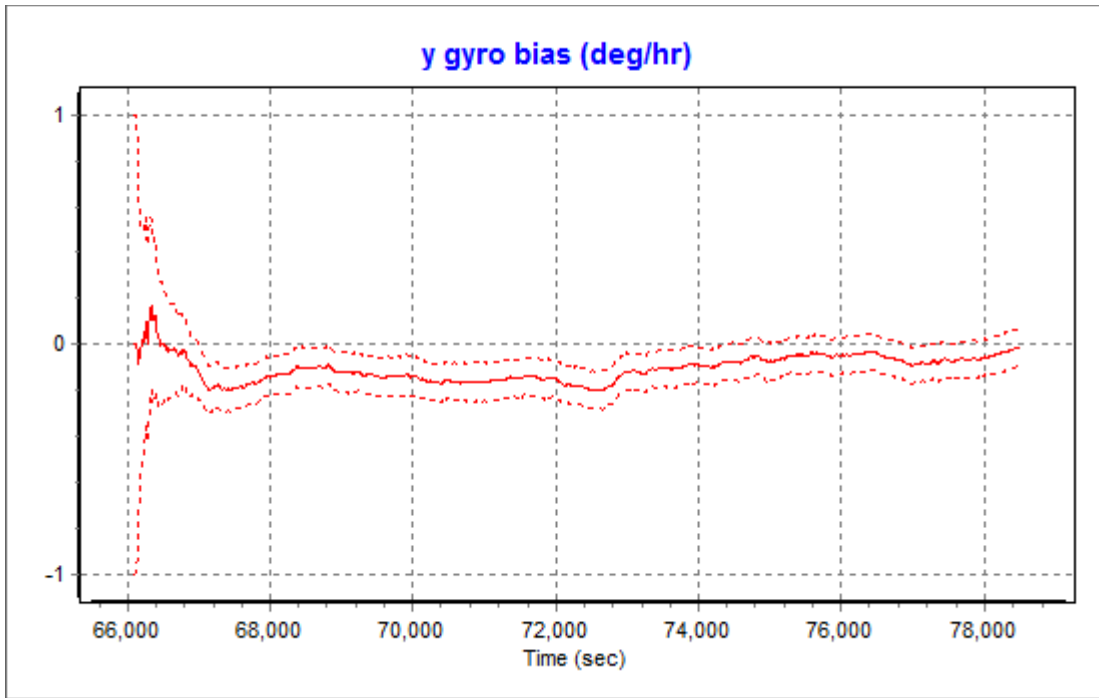
Station	Original			Adjusted		
	Latitude	Longitude	Altitude	Latitude	Longitude	Altitude
LOYA	N38°25'33.92935"	W78°53'21.79800"	363.924	N38°25'33.92935"	W78°53'21.79800"	363.924
ZDC1	N39°06'05.74451"	W77°32'33.88933"	79.596	N39°06'05.74486"	W77°32'33.88966"	79.566
PAWG	N40°18'19.27228"	W79°30'22.40232"	334.926	N40°18'19.27253"	W79°30'22.40305"	334.889
PAGW	N39°53'56.14859"	W80°09'36.40313"	262.753	N39°53'56.14809"	W80°09'36.40267"	262.71
PAFU	N39°55'35.71865"	W79°41'50.53509"	326.747	N39°55'35.71889"	W79°41'50.53566"	326.718
PAFM	N39°57'44.94246"	W77°58'43.64066"	285.509	N39°57'44.94274"	W77°58'43.64119"	285.454
LWX1	N38°58'21.66394"	W77°29'18.98433"	60.728	N38°58'21.66418"	W77°29'18.98495"	60.7
LOYY	N38°53'18.57661"	W78°29'56.96630"	220.904	N38°53'18.57701"	W78°29'56.96687"	220.87
LOYS	N39°38'46.42051"	W78°43'47.92091"	168.093	N39°38'46.42093"	W78°43'47.92154"	168.033
LOYQ	N39°38'02.62363"	W77°42'51.12036"	127.23	N39°38'02.62422"	W77°42'51.12097"	127.17
LOYP	N38°01'13.85597"	W79°01'07.26280"	392.062	N38°01'13.85601"	W79°01'07.26325"	392.048
LOYJ	N38°28'20.92222"	W78°00'36.16887"	103.853	N38°28'20.92253"	W78°00'36.16903"	103.815
LOYC	N39°07'12.57573"	W78°12'02.63165"	201.807	N39°07'12.57582"	W78°12'02.63236"	201.799
ALLG	N39°39'13.91860"	W78°43'50.52687"	174.48	N39°39'13.91891"	W78°43'50.52735"	174.457

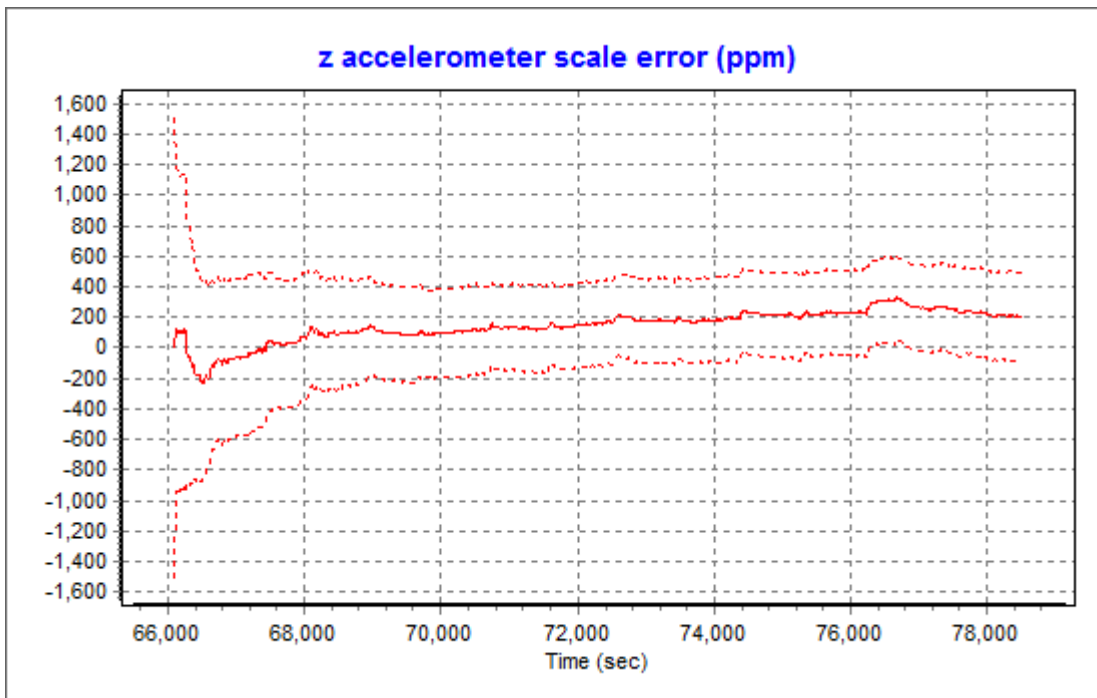
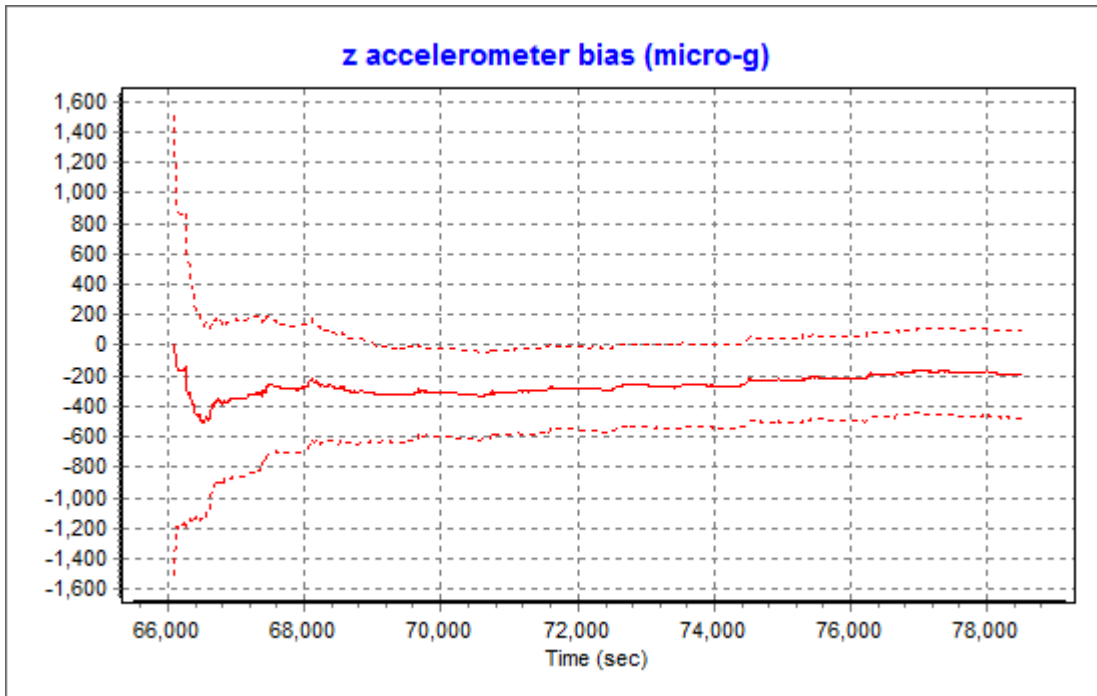


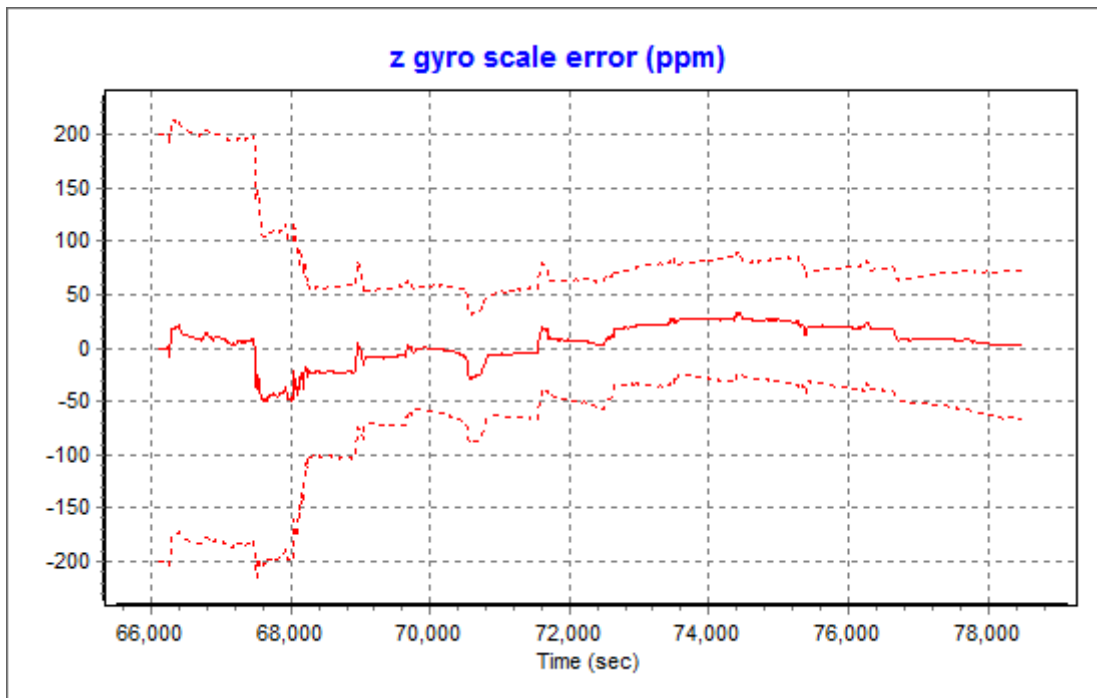
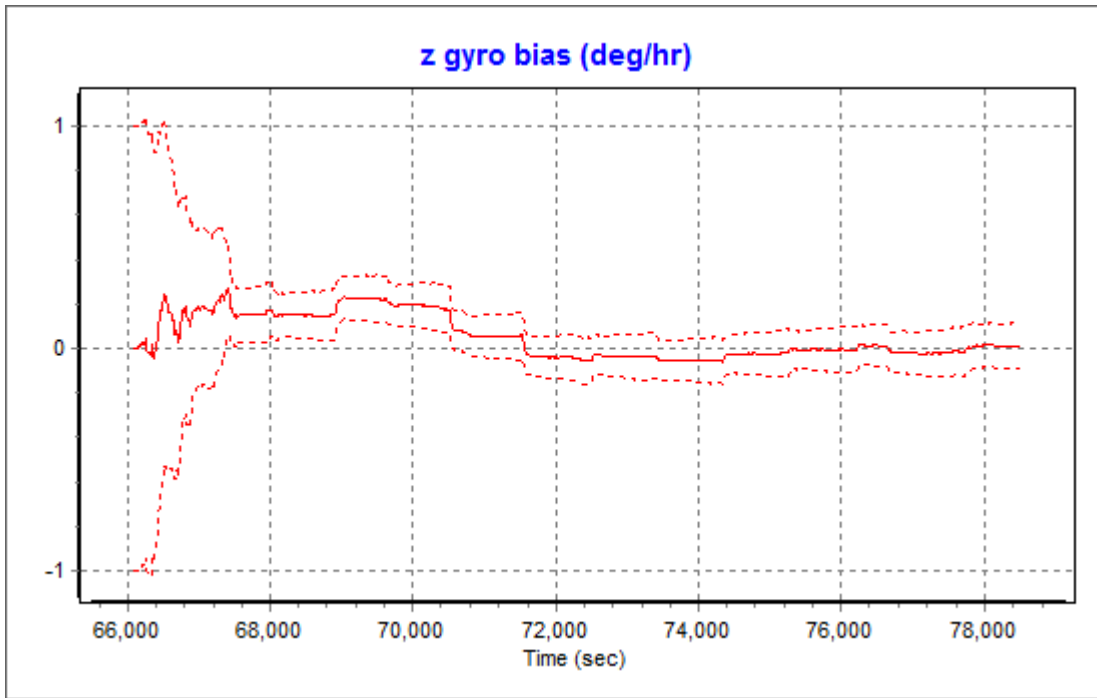


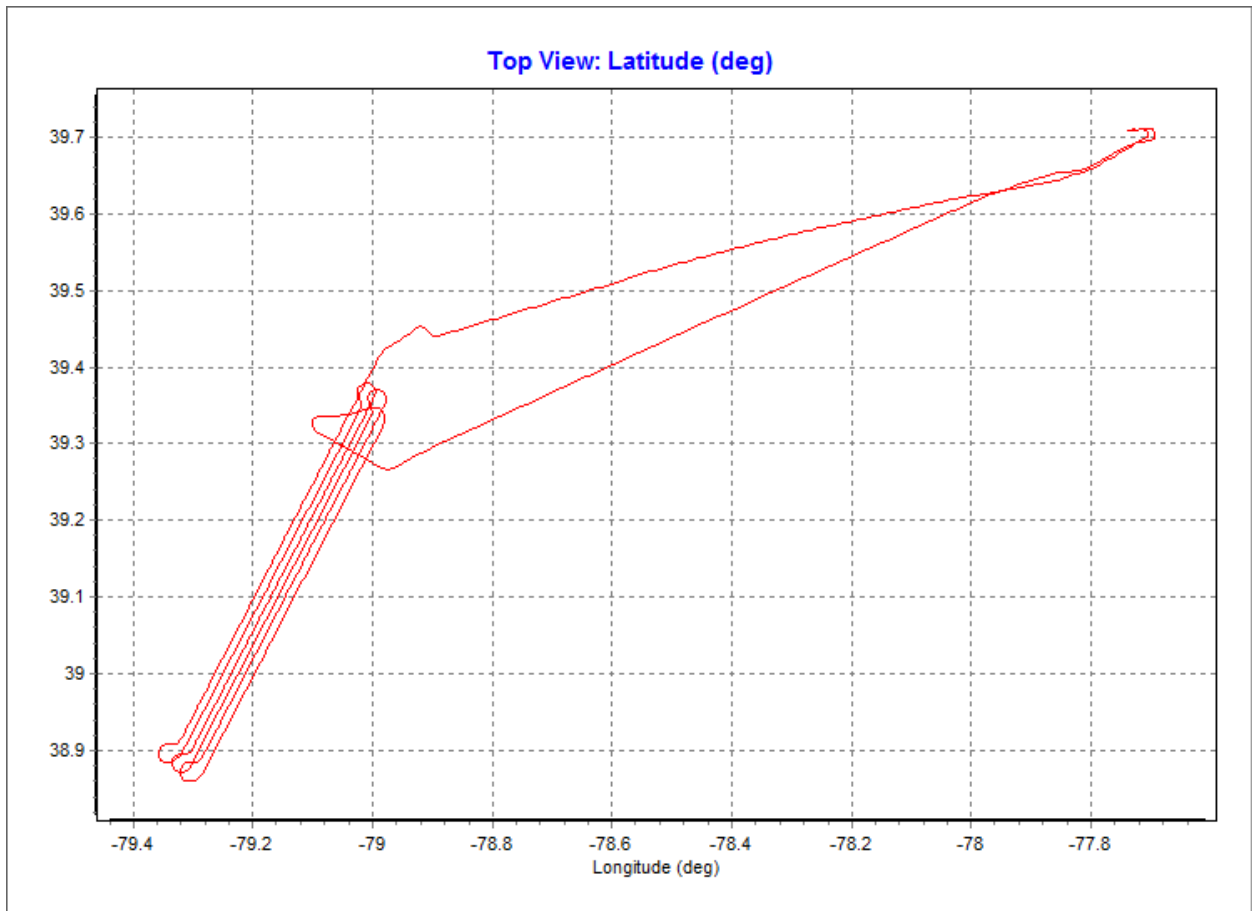


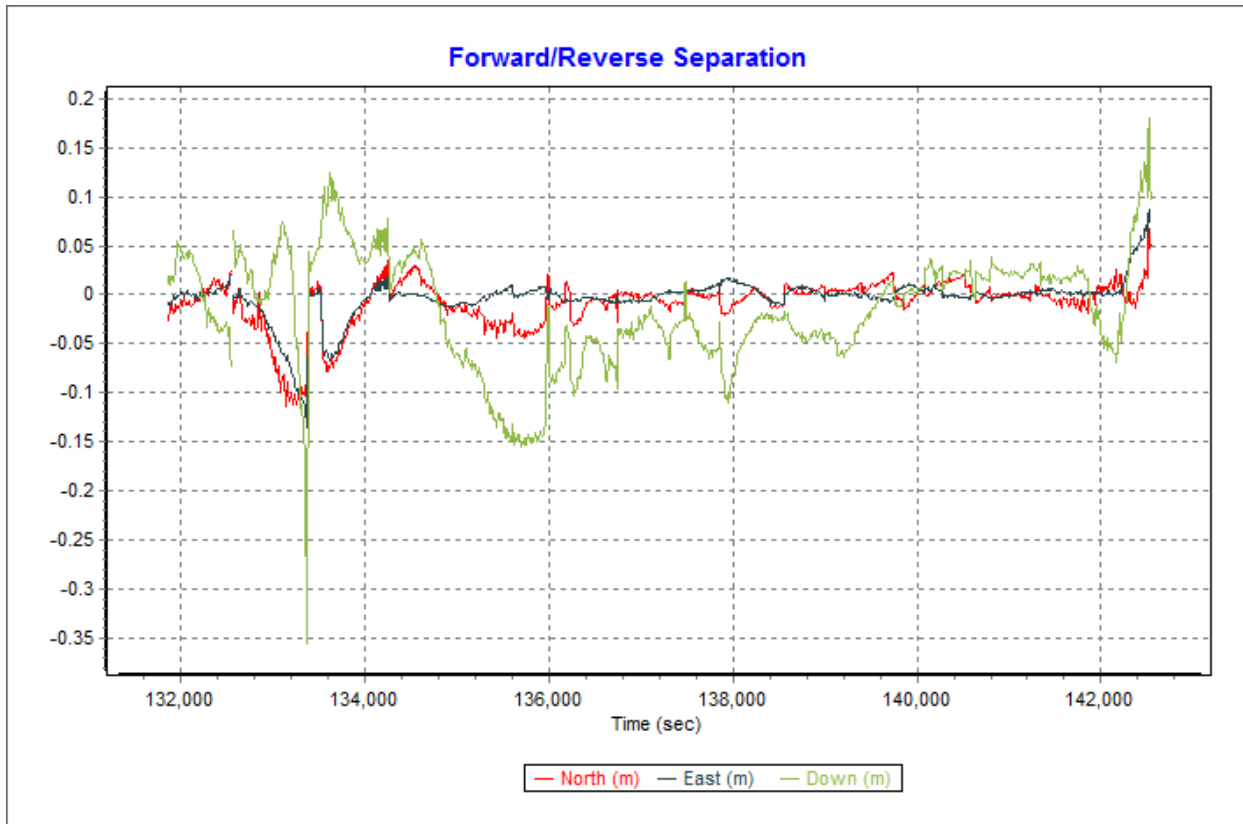


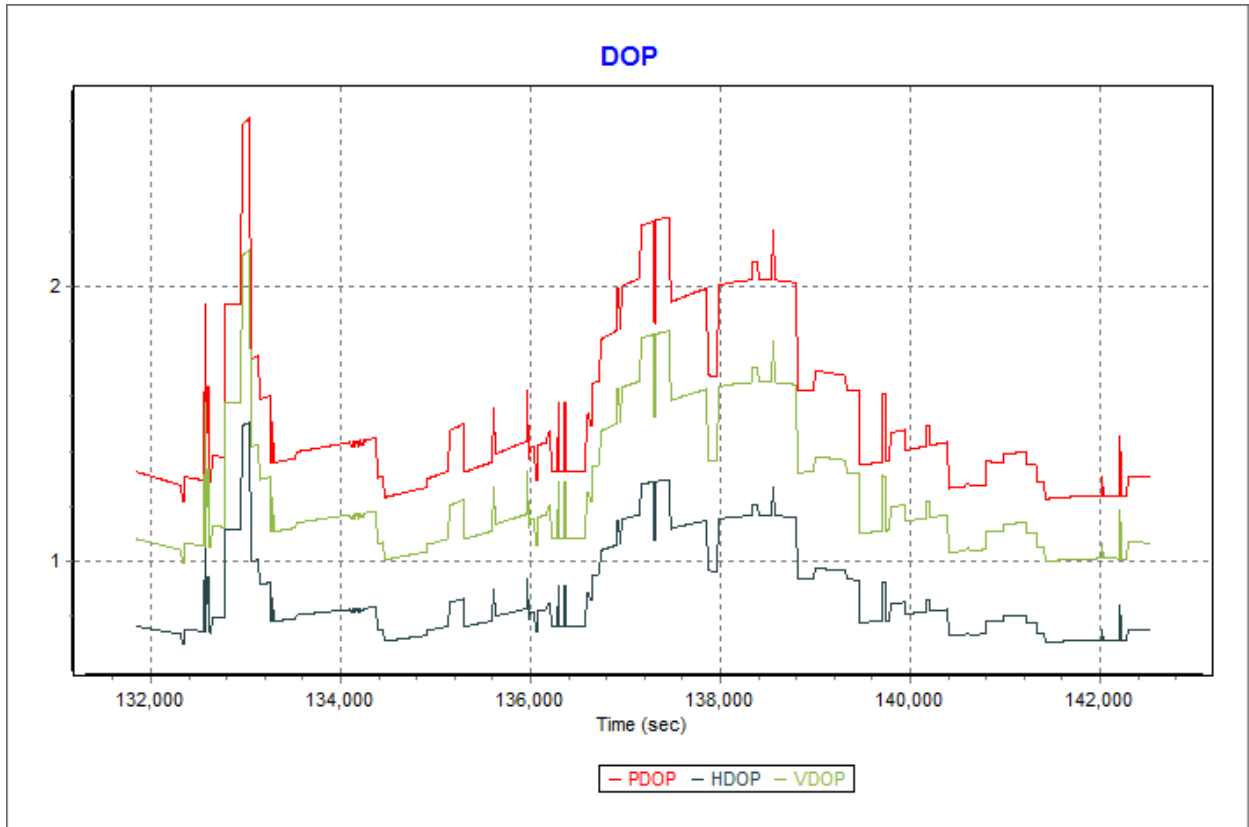


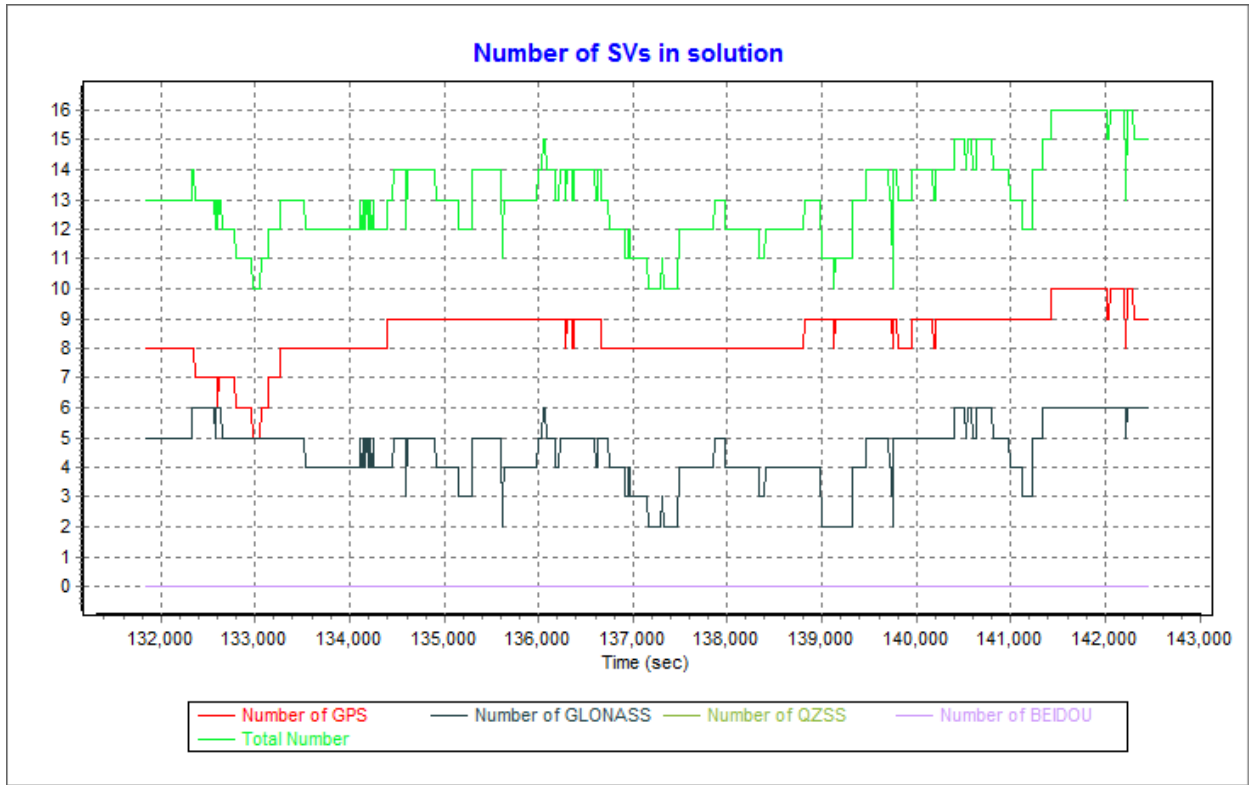












### Processing Summary Information

Program: POSPac MMS  
Version: 7.2.5934.15637  
Project: \\sa\data\216027\20161114\_WV\_C

Solution Type: IN-Fusion SmartBase

Fixed: 10647 (99.99%)  
Float: 0 (0.0%)  
No Solution: 1 (0.01%)

Number of Epochs:

Total in RAW file: 10717  
No processed position: 70

Fwd/Rev Separation RMS Values (m):

East: 0.021  
North: 0.026  
Height: 0.061

Fwd/Rev Sep. RMS for 25%-75% weighting (m): 5359 occurrences:

East: 0.006  
North: 0.016  
Height: 0.068



Position Standard Deviation Percentages:

0.00 - 0.10 m: 100.0 %  
 0.10 - 0.30 m: 0.0 %  
 0.30 - 1.00 m: 0.0 %  
 1.00 - 5.00 m: 0.0 %  
 5.00 m + over: 0.0 %

Percentages of epochs with DD\_DOP over 10.00: 0 %

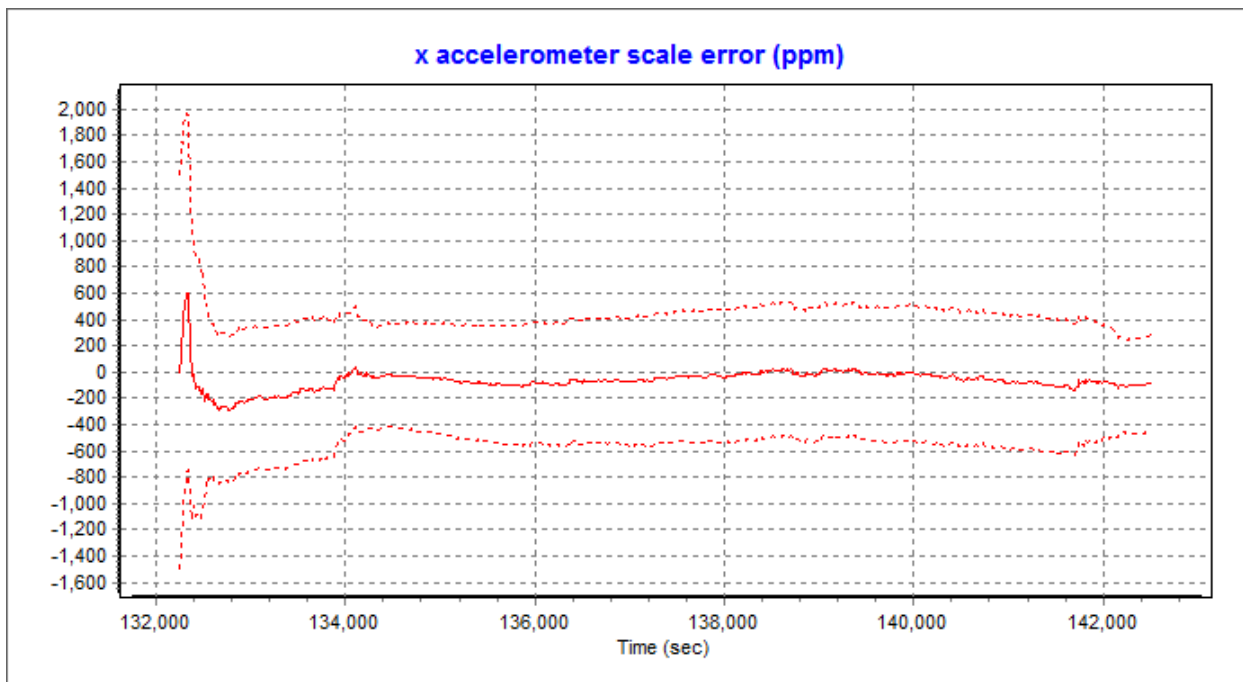
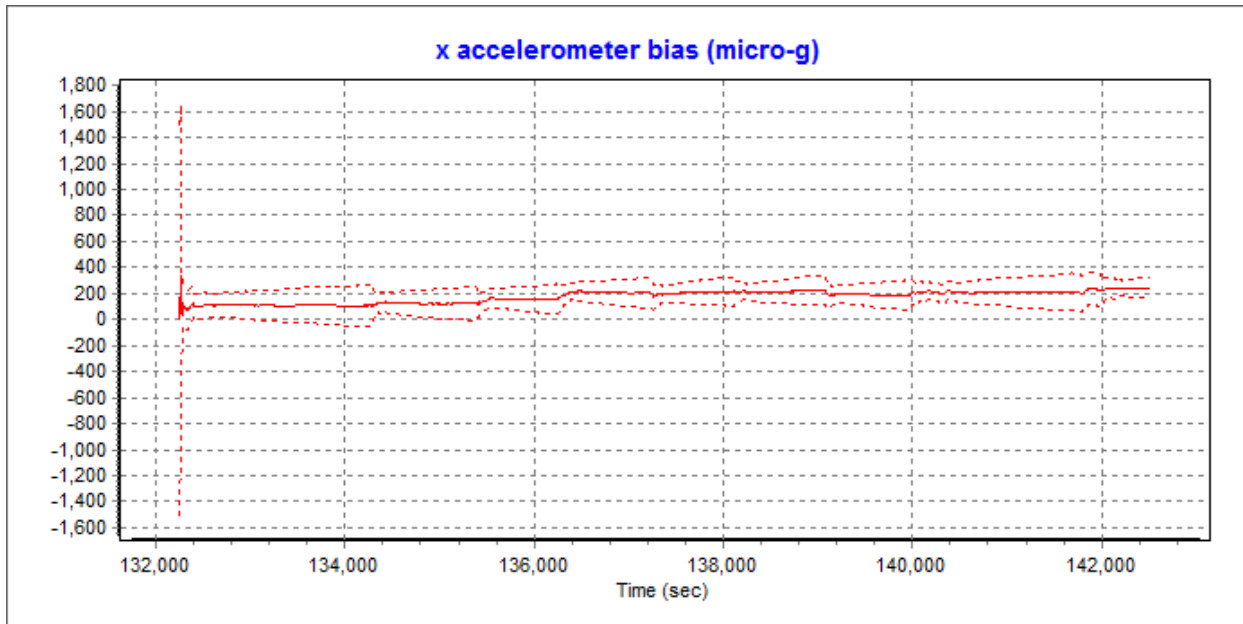
DOP over Tol: 1.52 %

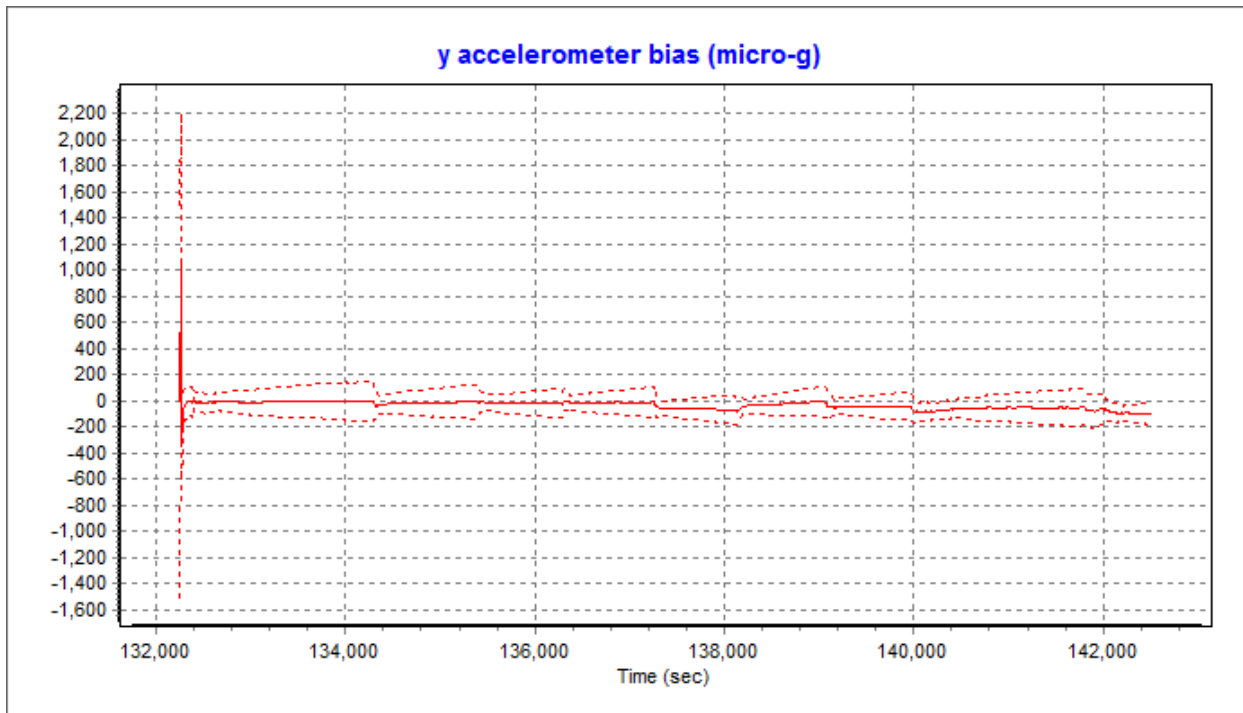
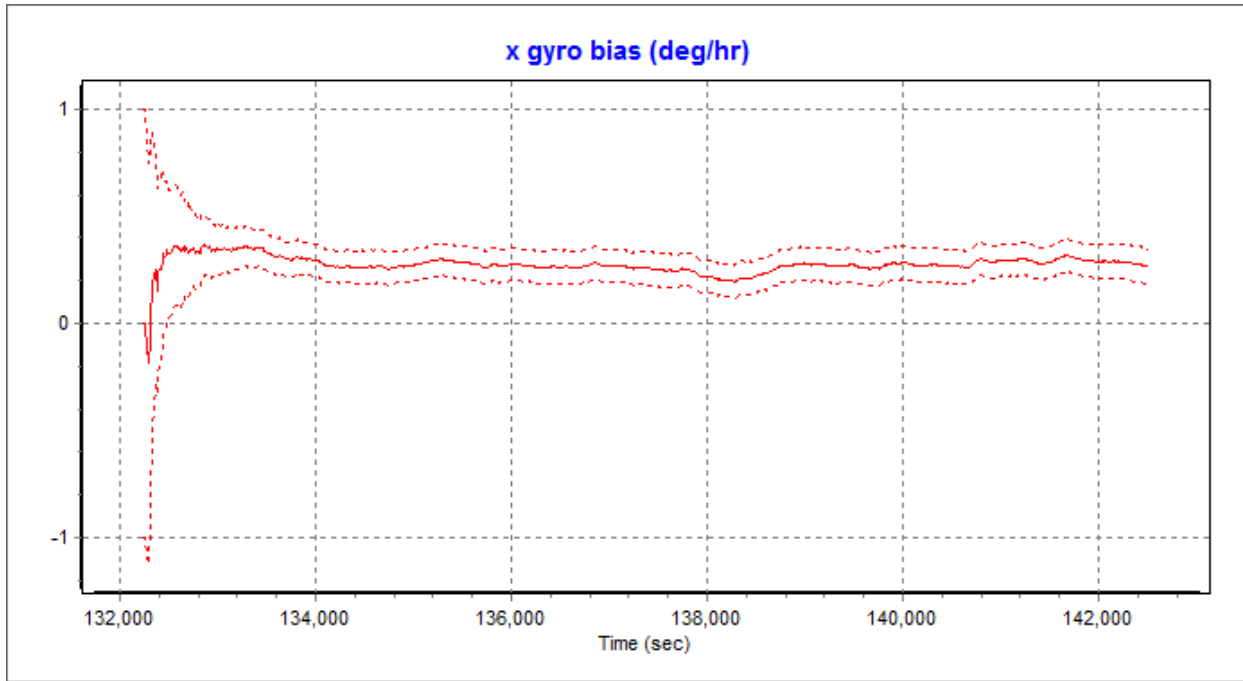
Baseline Distances (km):

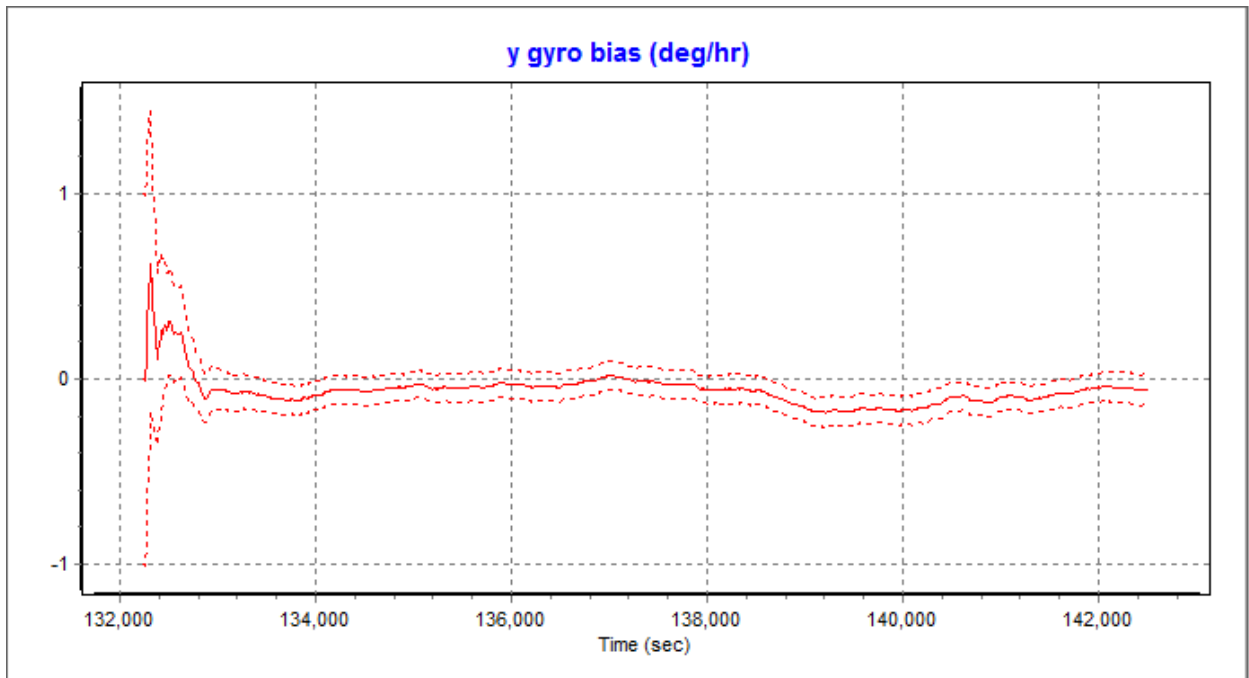
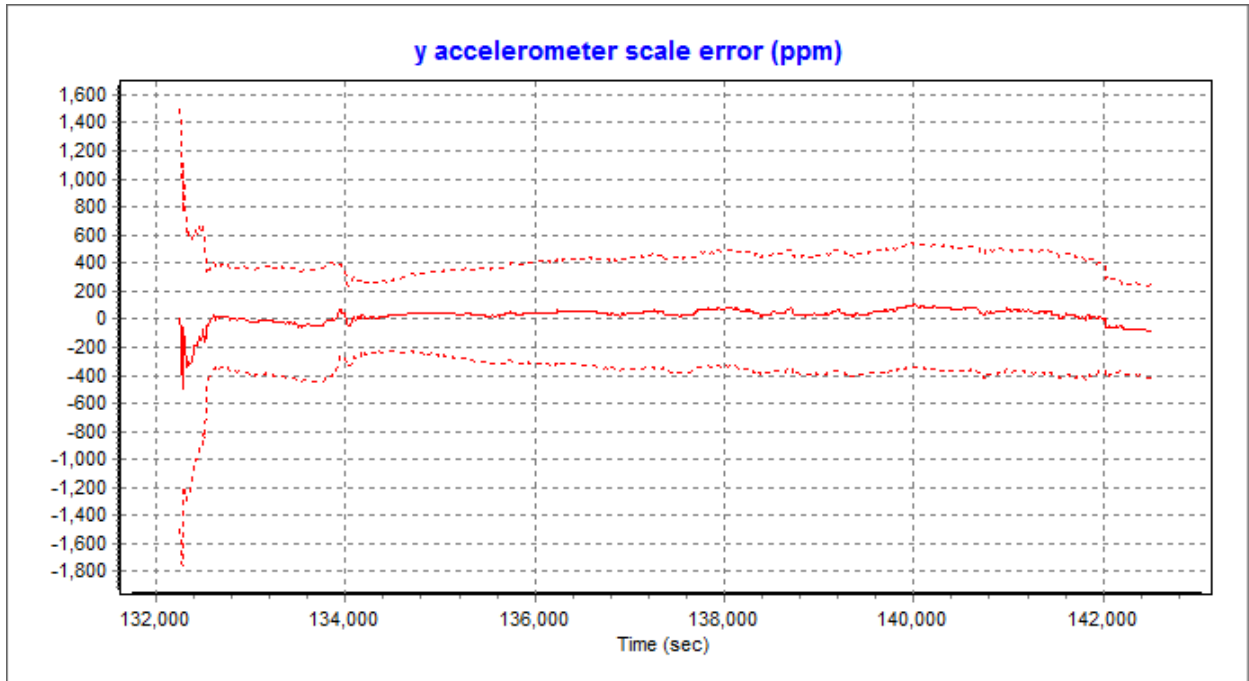
Maximum: 96.80  
 Minimum: 3.27  
 Average: 49.02  
 First Epoch: 94.32  
 Last Epoch: 73.77

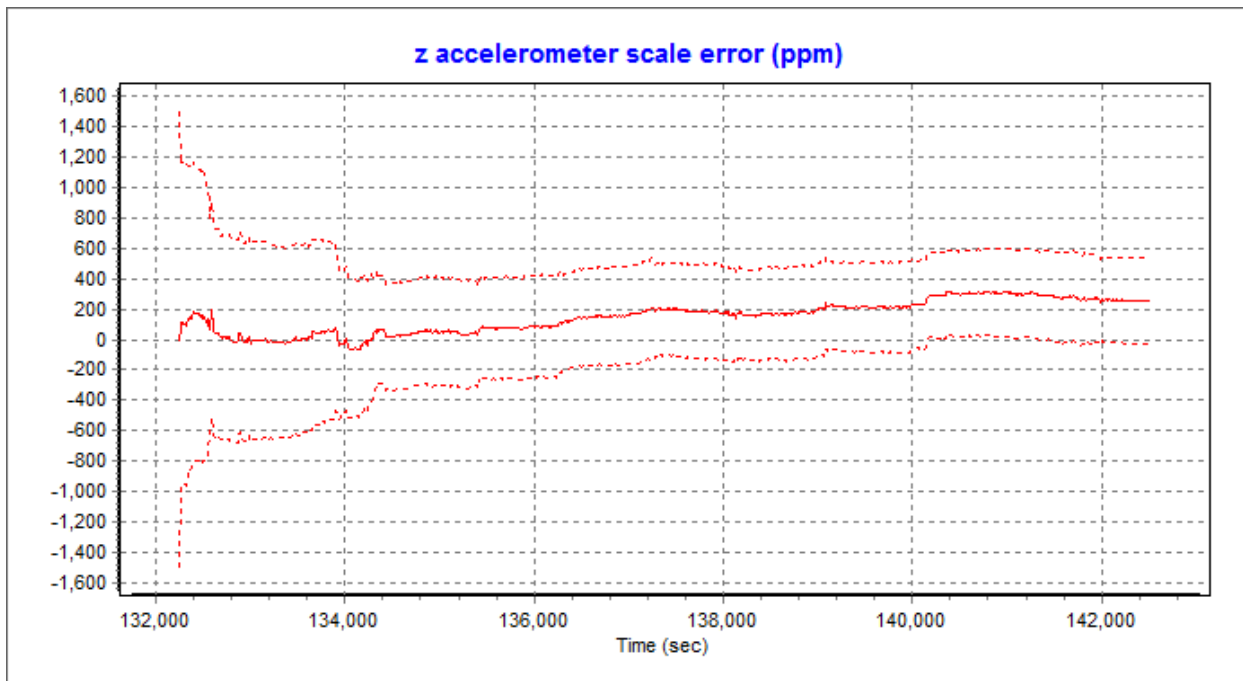
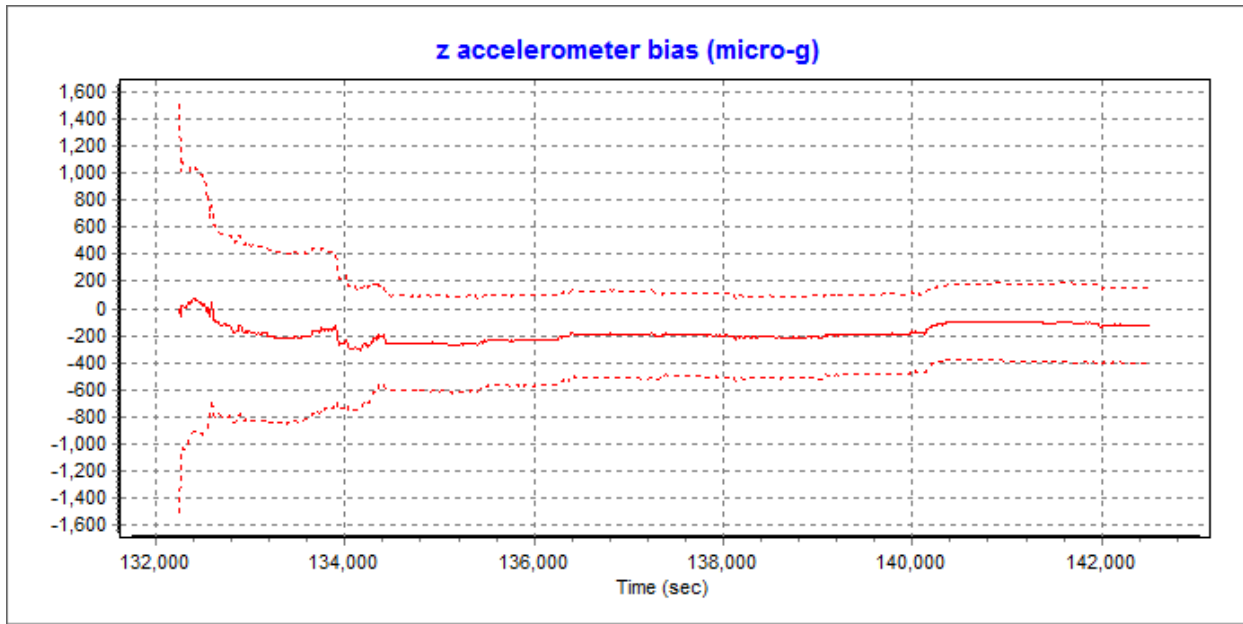
**CORS Base Stations**

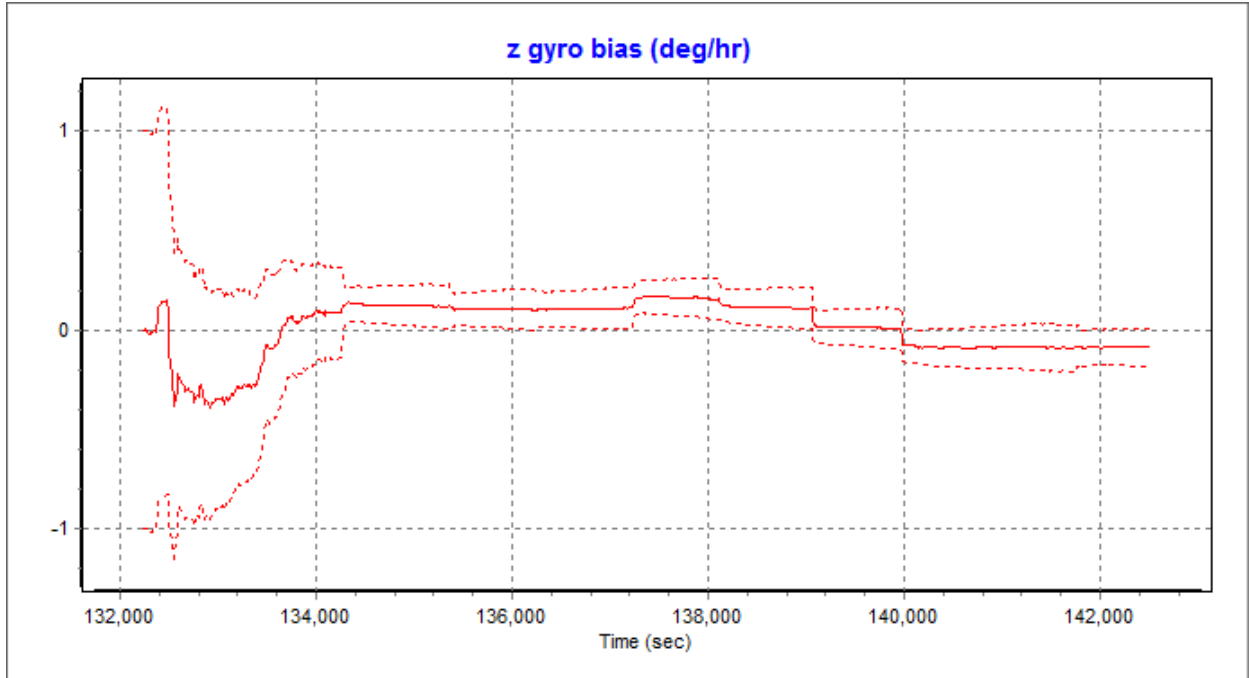
Station	Original			Adjusted		
	Latitude	Longitude	Altitude	Latitude	Longitude	Altitude
LOYS	N39°38'46.42067"	W78°43'47.92151"	168.098	N39°38'46.42047"	W78°43'47.92089"	168.066
WVNR	N38°53'44.53445"	W79°51'30.29441"	581.501	N38°53'44.53423"	W79°51'30.29423"	581.495
WVMF	N39°04'32.37374"	W78°55'57.02167"	312.272	N39°04'32.37355"	W78°55'57.02150"	312.263
WVGB	N38°25'48.45399"	W79°49'01.31924"	811.181	N38°25'48.45358"	W79°49'01.31924"	811.17
WVCV	N39°00'55.10519"	W79°27'25.03354"	967.96	N39°00'55.10436"	W79°27'25.03251"	967.951
WVBU	N39°20'16.85130"	W78°54'48.61070"	198.787	N39°20'16.85106"	W78°54'48.61062"	198.78
VA01	N38°01'13.99972"	W78°00'53.07977"	111.255	N38°01'13.99920"	W78°00'53.08295"	111.404
LOYY	N38°53'18.57662"	W78°29'56.96636"	220.904	N38°53'18.57662"	W78°29'56.96636"	220.904
LOYQ	N39°38'02.62364"	W77°42'51.12042"	127.23	N39°38'02.62376"	W77°42'51.12045"	127.202
LOYJ	N38°28'20.92223"	W78°00'36.16893"	103.853	N38°28'20.92220"	W78°00'36.16861"	103.847
LOYI	N38°01'59.45426"	W78°30'42.43148"	154.965	N38°01'59.45417"	W78°30'42.43145"	154.949
LOYC	N39°07'12.57574"	W78°12'02.63171"	201.807	N39°07'12.57525"	W78°12'02.63175"	201.832
LOYB	N38°43'42.05158"	W77°11'02.31947"	-2.857	N38°43'42.05151"	W77°11'02.31940"	-2.889
LOYA	N38°25'33.92919"	W78°53'21.79756"	363.919	N38°25'33.92905"	W78°53'21.79754"	363.957
GODZ	N39°01'18.21996"	W76°49'36.59582"	14.484	N39°01'18.21978"	W76°49'36.59575"	14.485
GODE	N39°01'18.22000"	W76°49'36.59585"	14.482	N39°01'18.21978"	W76°49'36.59572"	14.486

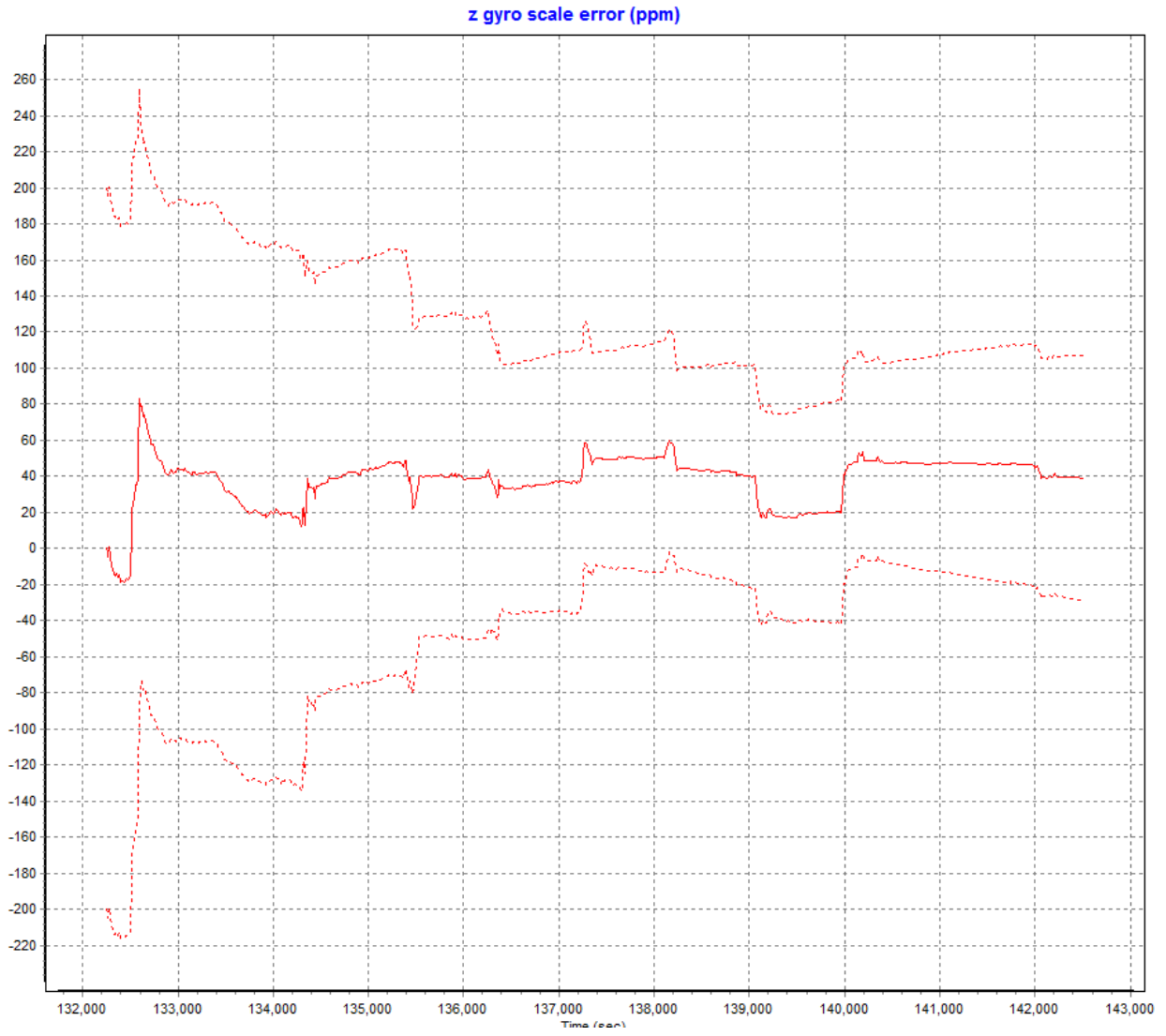


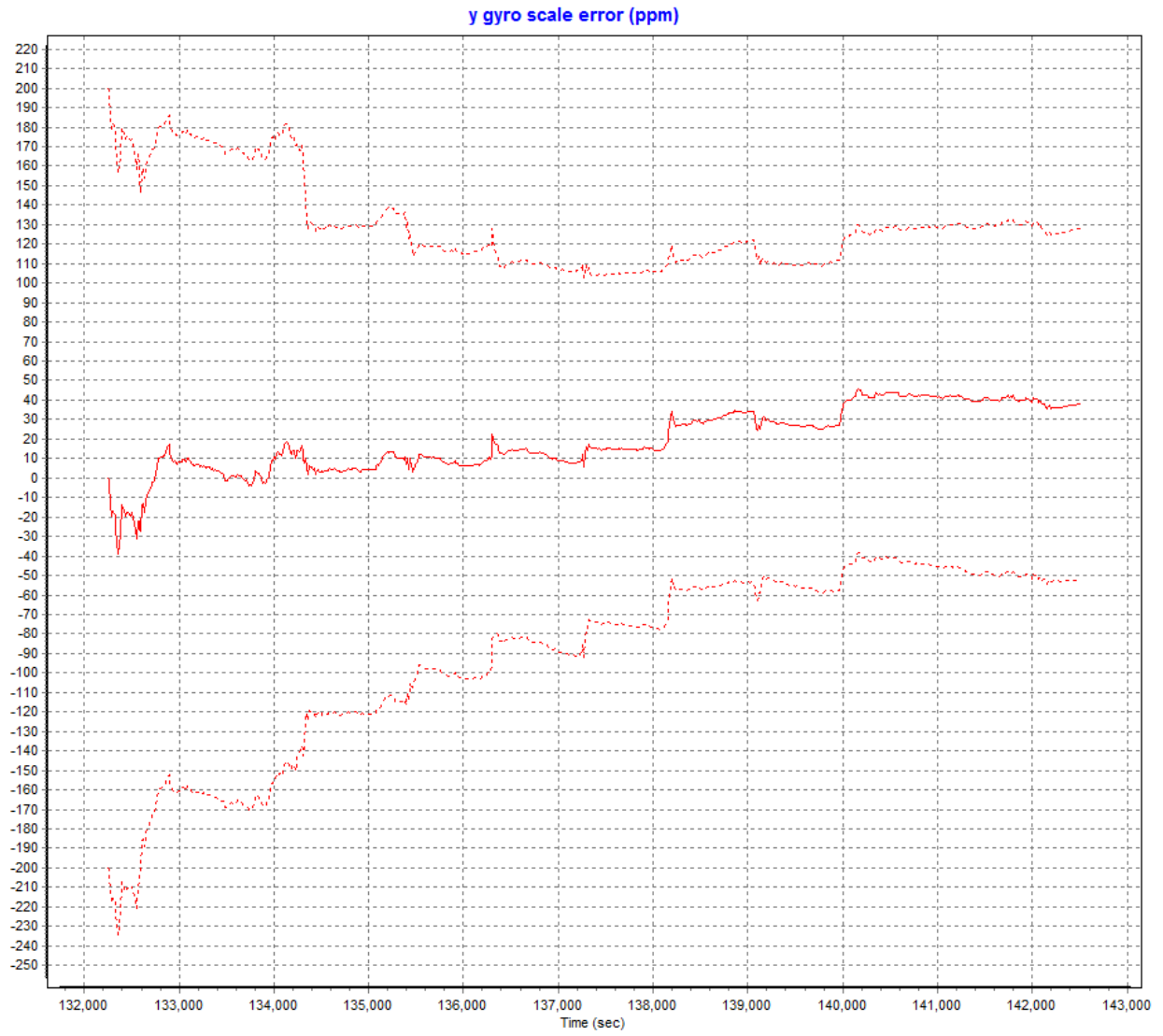




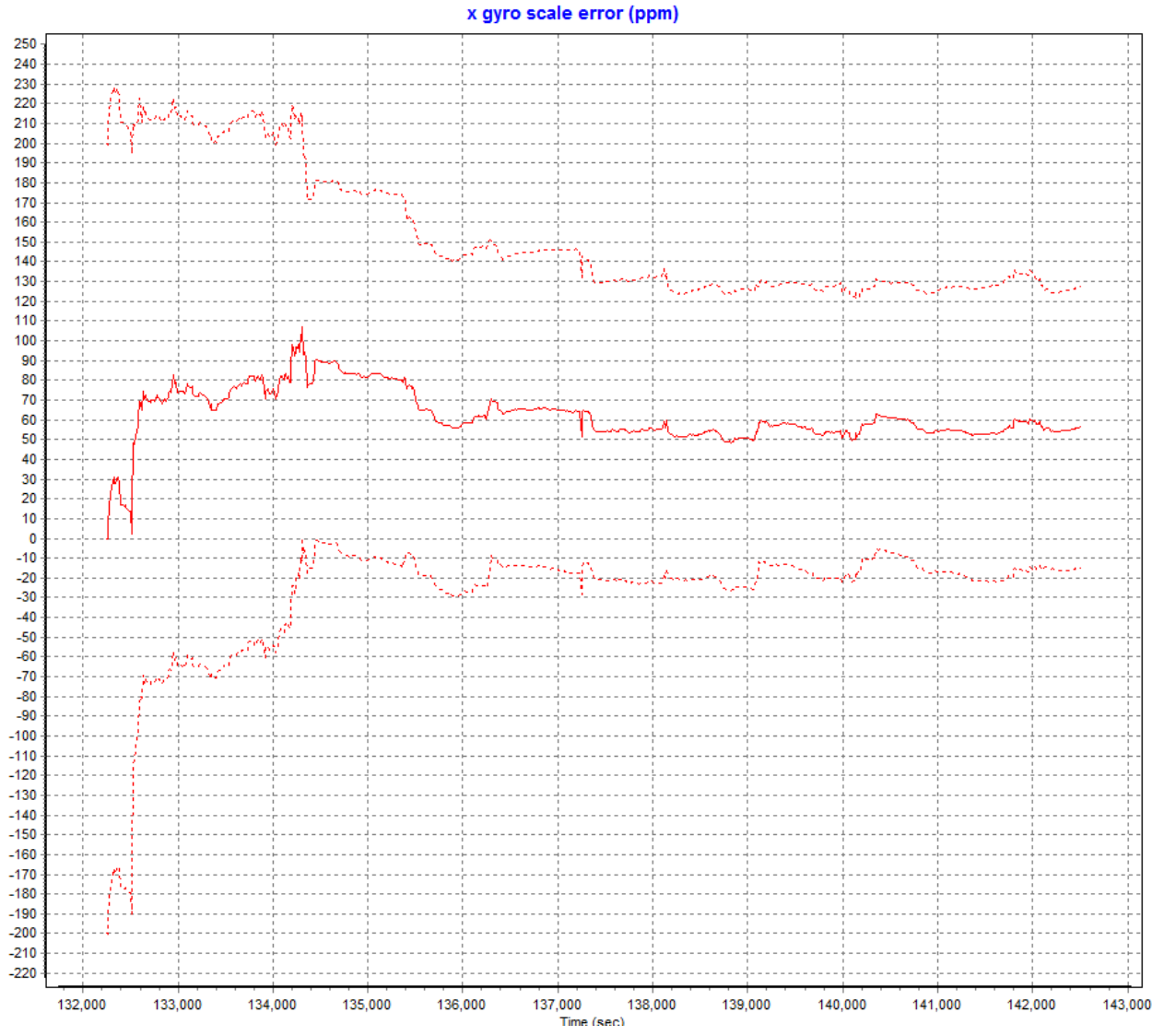


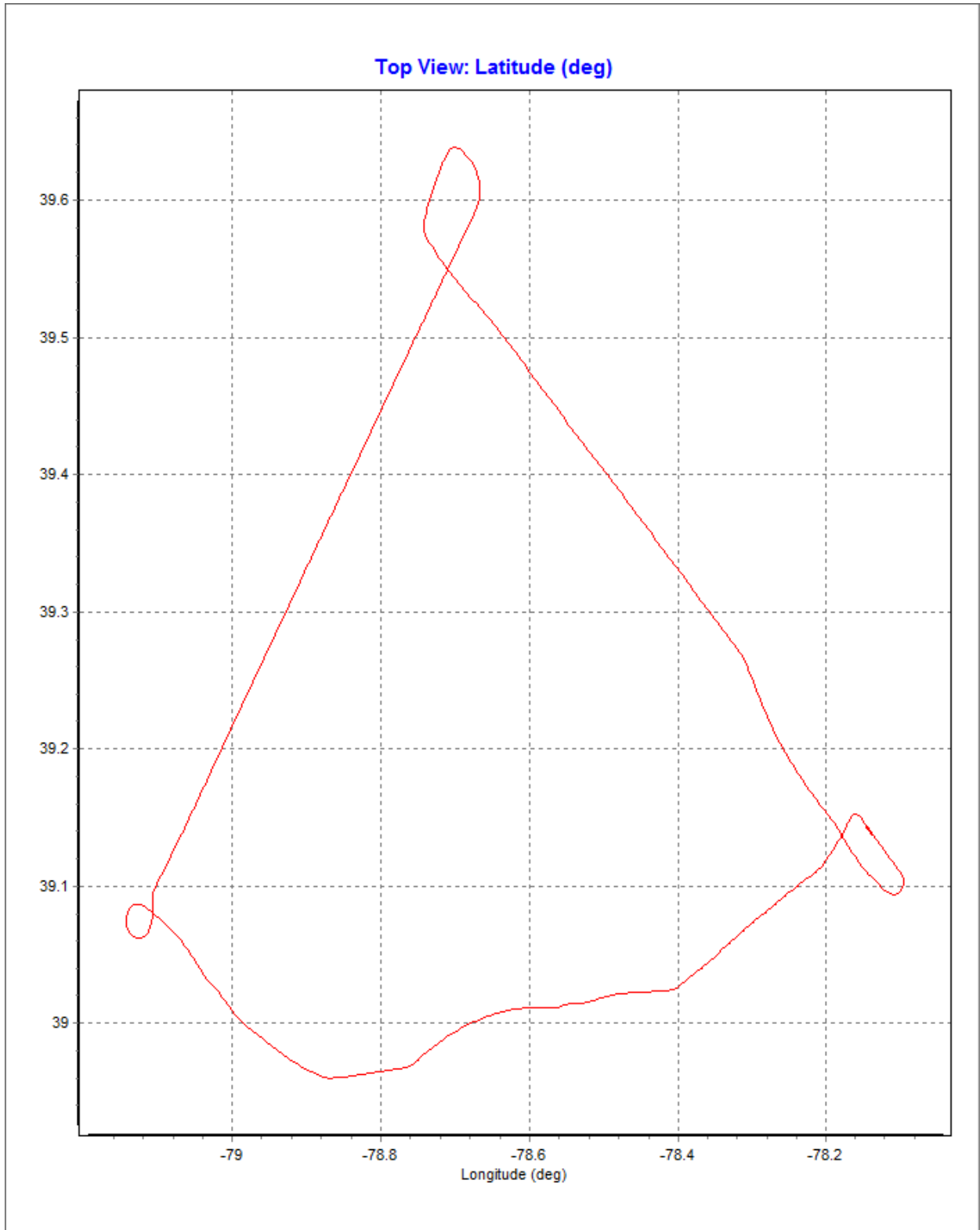


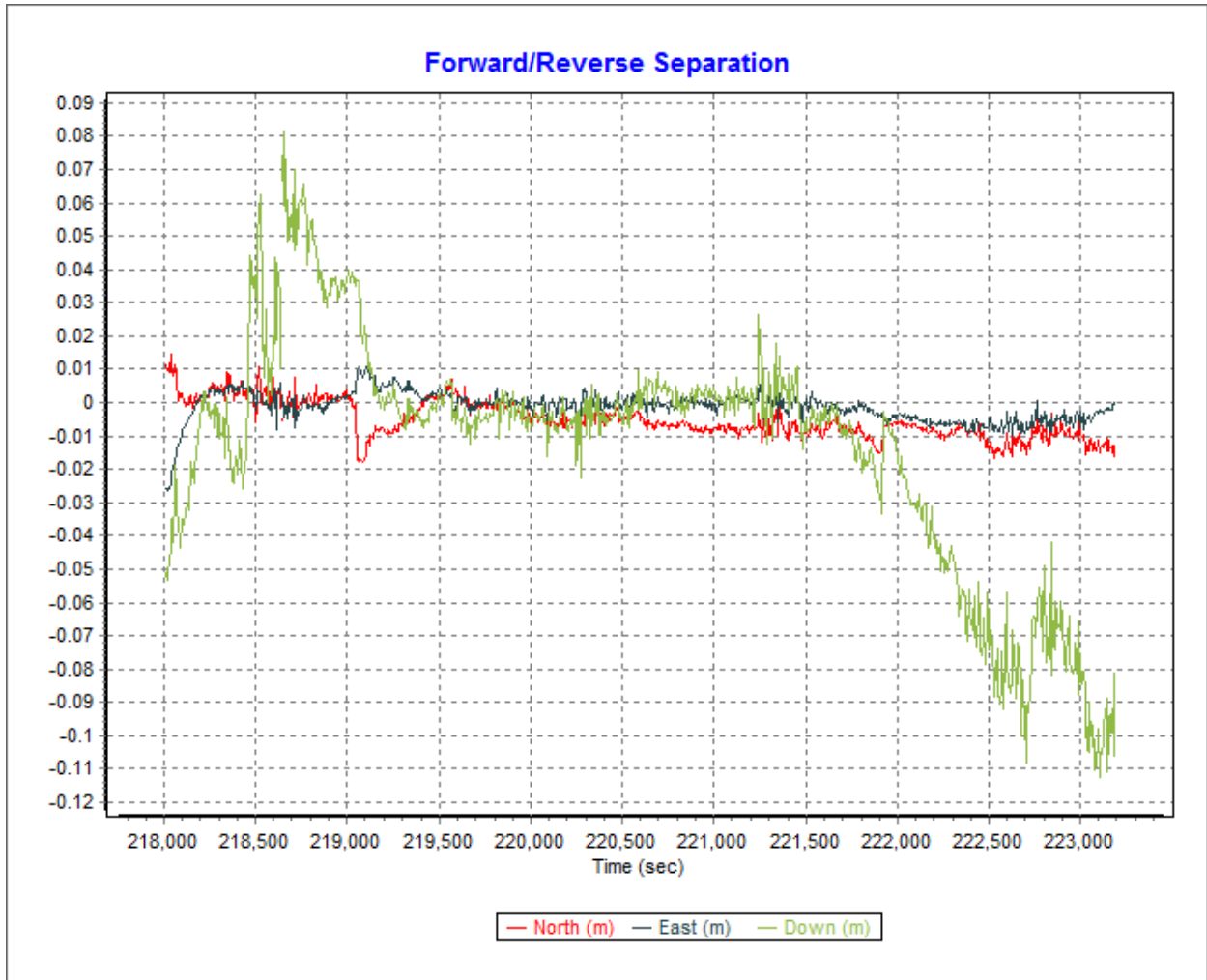


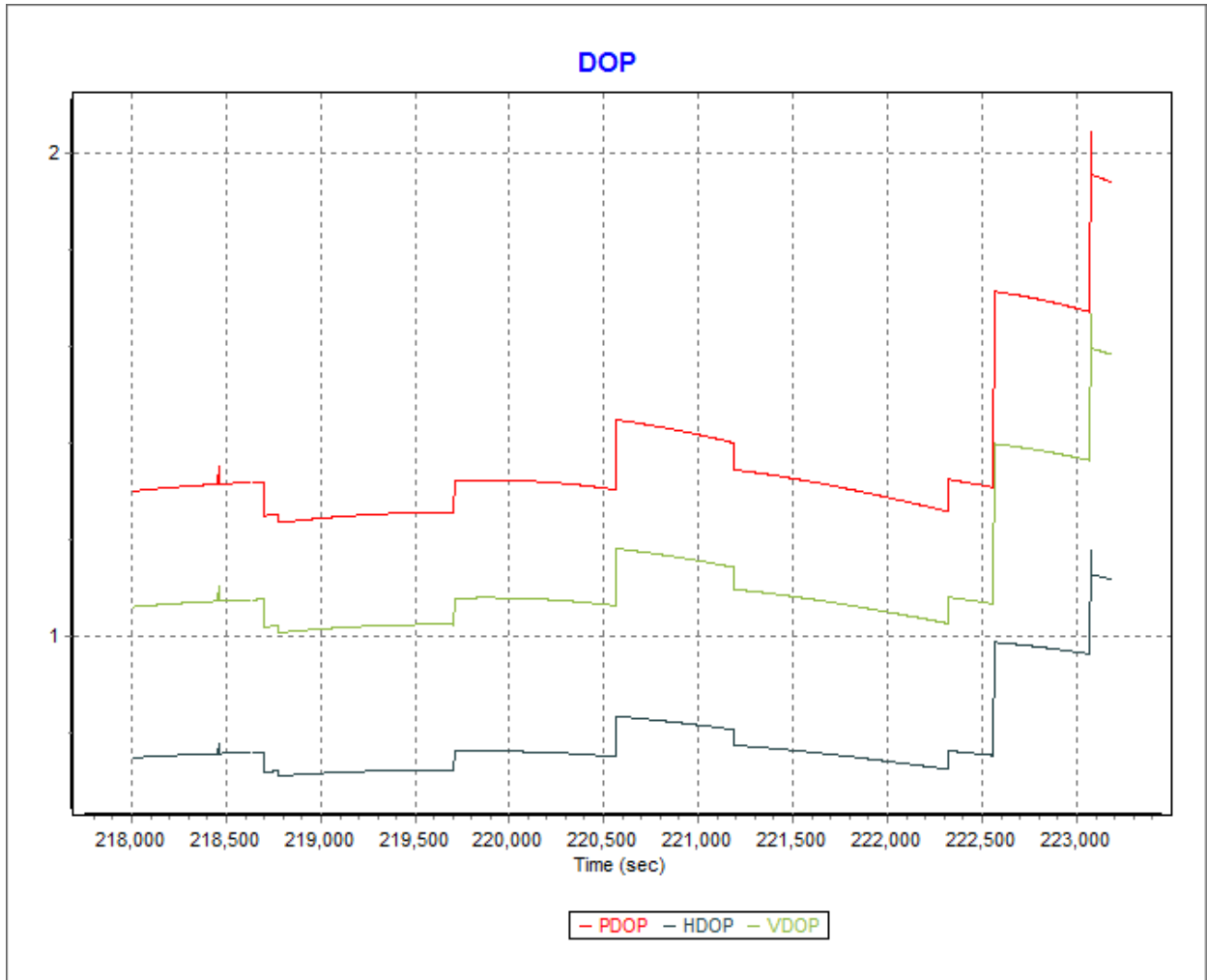


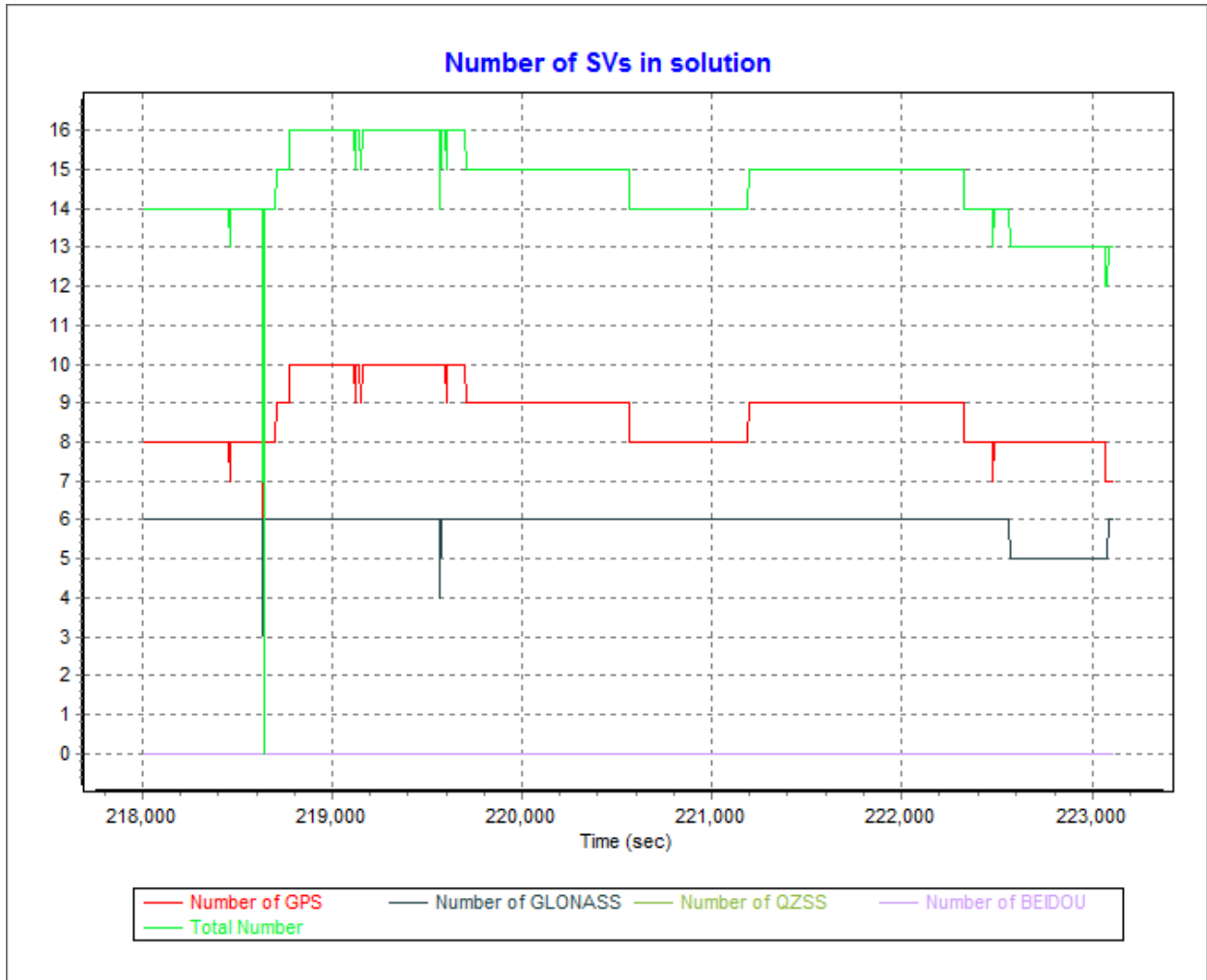












### Processing Summary Information

Program: POSPac MMS  
Version: 7.2.5934.15637  
Project: \\sa\data\216027\20161220\_WV\_A

Solution Type: IN-Fusion SmartBase

Fixed: 5118 (99.98%)  
Float: 0 (0.0%)  
No Solution: 1 (0.02%)

Number of Epochs:

Total in RAW file: 5190  
No processed position: 71

Fwd/Rev Separation RMS Values (m):

East: 0.005  
North: 0.007  
Height: 0.038

Fwd/Rev Sep. RMS for 25%-75% weighting (m): 2595 occurrences

East: 0.002  
North: 0.006  
Height: 0.007

Position Standard Deviation Percentages:

0.00 - 0.10 m: 100.0 %  
0.10 - 0.30 m: 0.0 %  
0.30 - 1.00 m: 0.0 %  
1.00 - 5.00 m: 0.0 %  
5.00 m + over: 0.0 %

Percentages of epochs with DD\_DOP over 10.00: 0 %

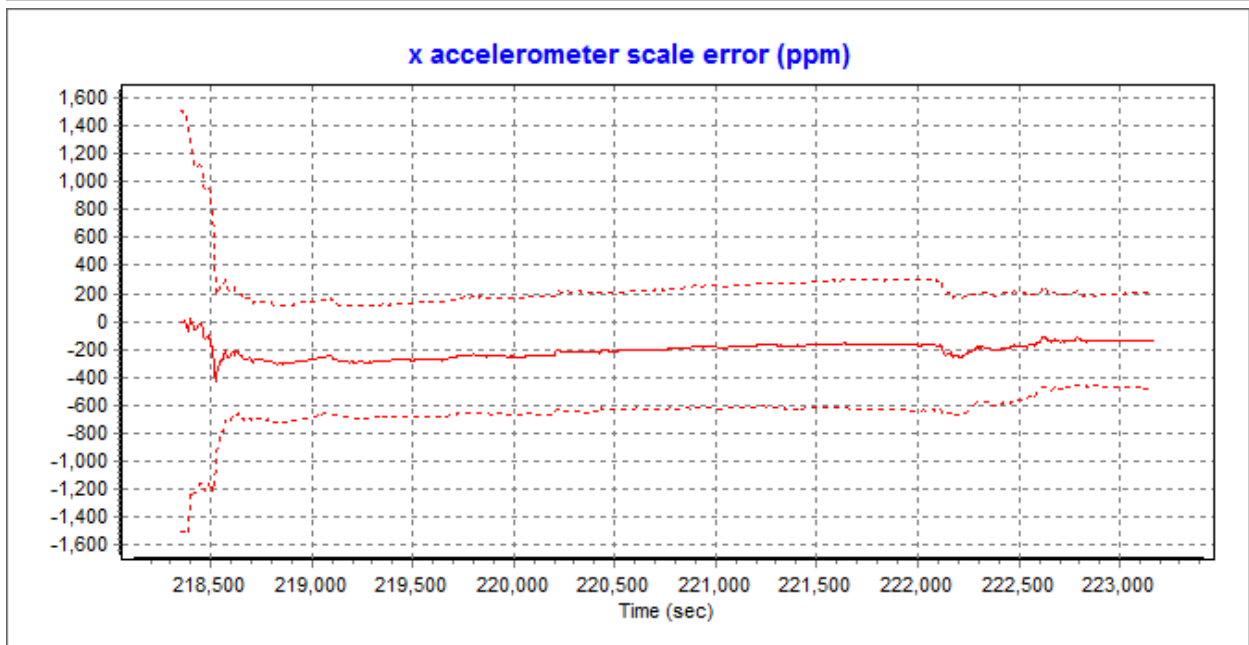
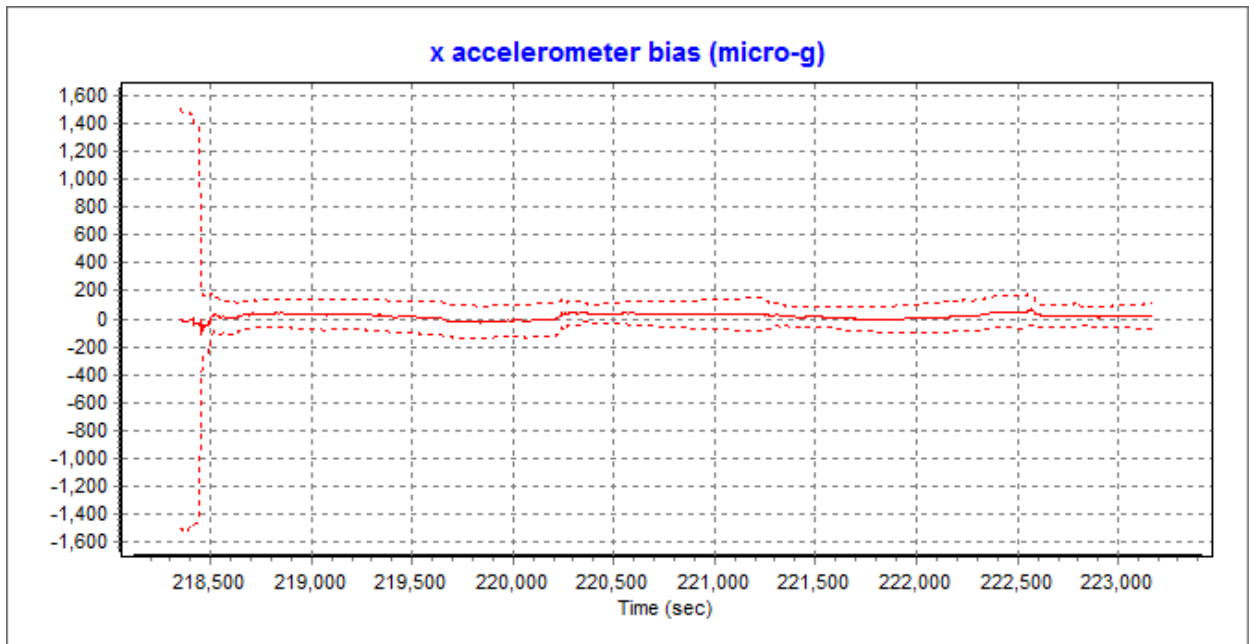
DOP over Tol: 1.36 %

Baseline Distances (km):

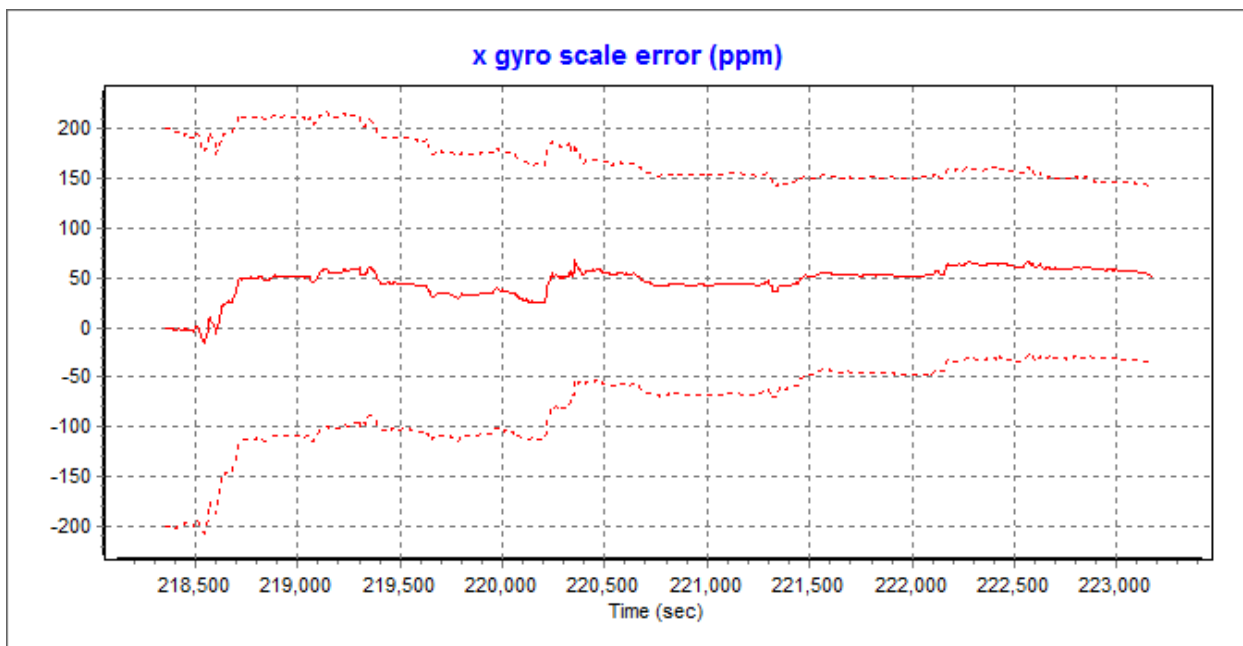
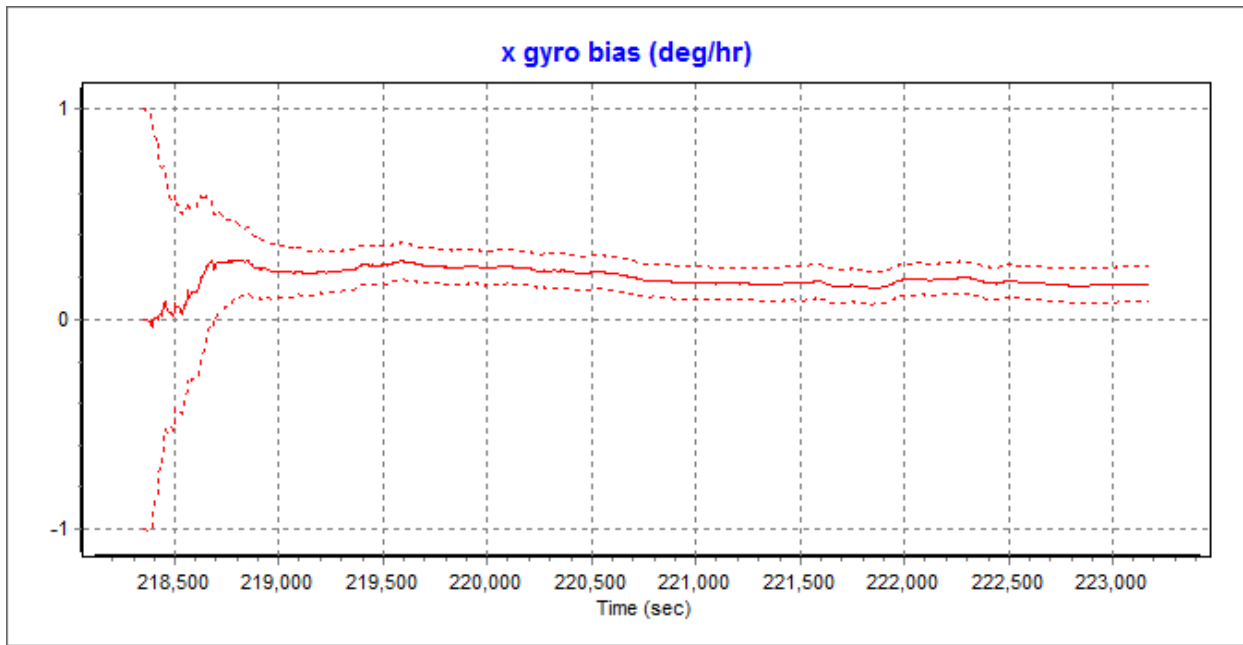
Maximum: 54.97  
Minimum: 18.28  
Average: 33.91  
First Epoch: 33.59  
Last Epoch: 33.59

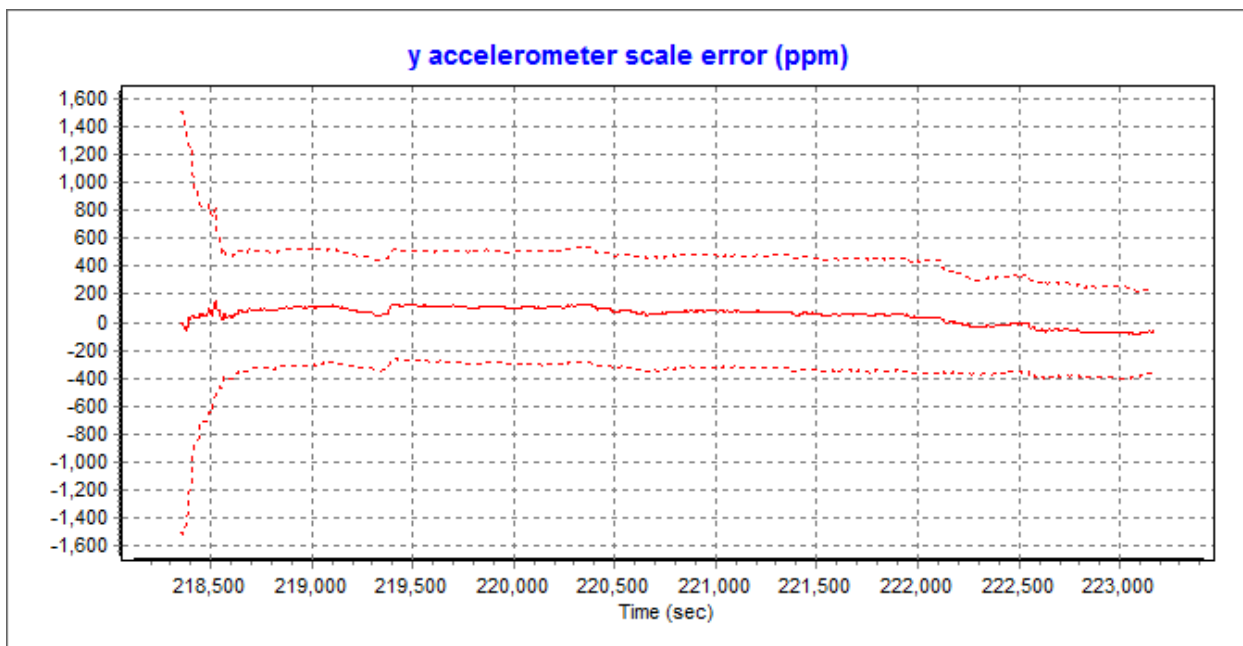
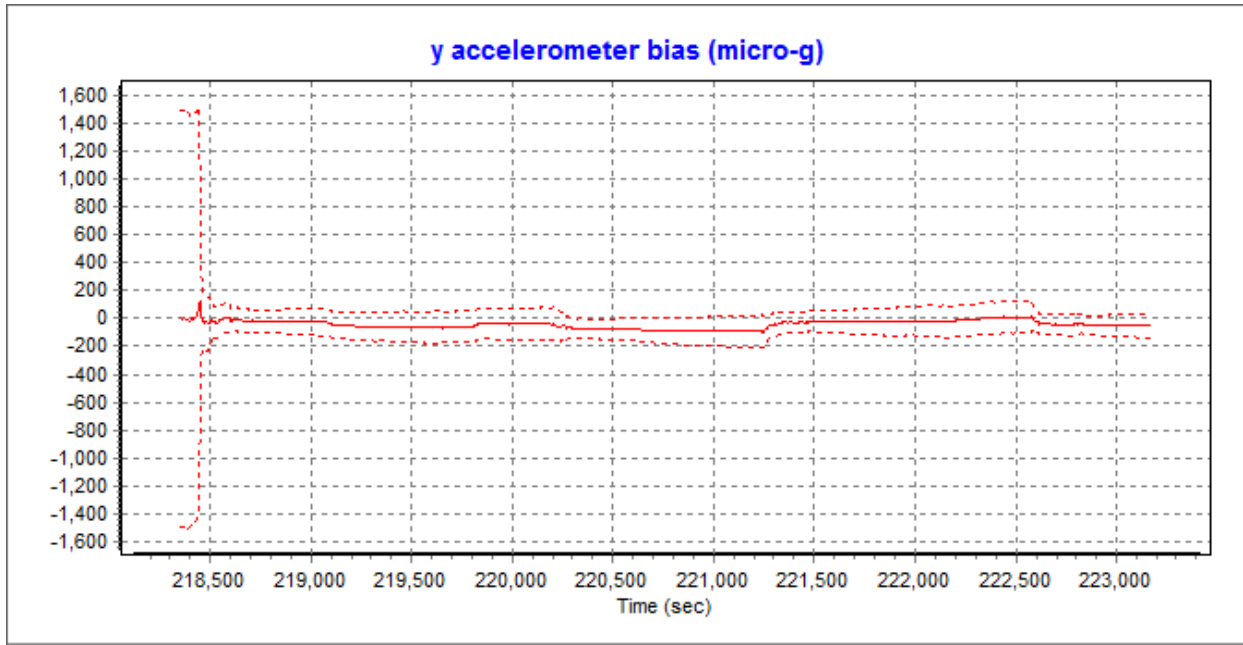
### CORS Base Stations

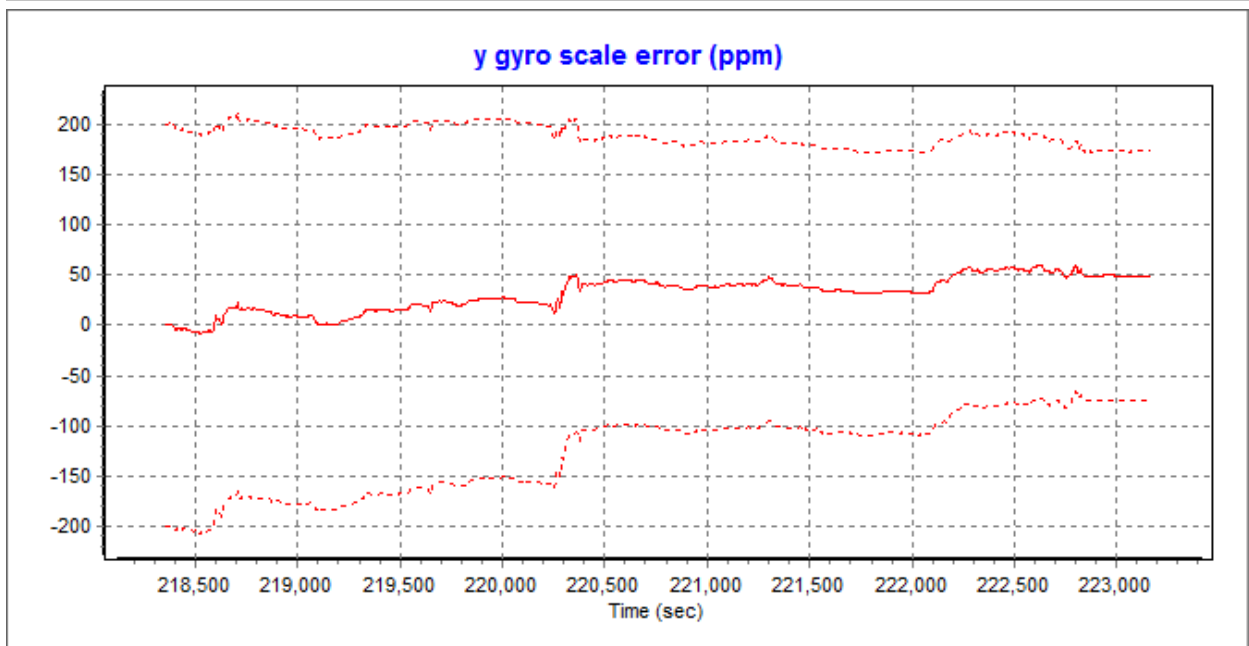
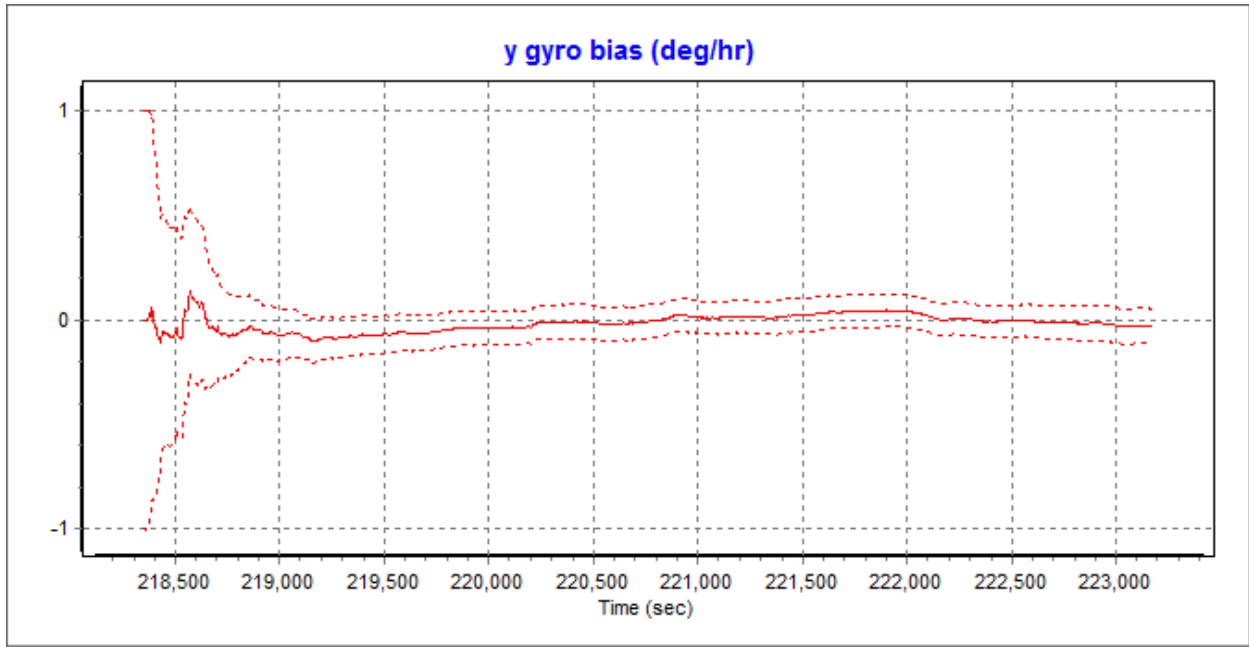
Station	Original			Adjusted		
	Latitude	Longitude	Altitude	Latitude	Longitude	Altitude
LOYS	N39°38'46.42067"	W78°43'47.92151"	168.098	N39°38'46.42067"	W78°43'47.92151"	168.098
WVNR	N38°53'44.53445"	W79°51'30.29441"	581.501	N38°53'44.53441"	W79°51'30.29487"	581.528
WVMF	N39°04'32.37374"	W78°55'57.02167"	312.272	N39°04'32.37373"	W78°55'57.02212"	312.295
WVGB	N38°25'48.45399"	W79°49'01.31924"	811.181	N38°25'48.45375"	W79°49'01.31986"	811.203
WVCV	N39°00'55.10519"	W79°27'25.03354"	967.96	N39°00'55.10454"	W79°27'25.03314"	967.983
WVBU	N39°20'16.85130"	W78°54'48.61070"	198.787	N39°20'16.85126"	W78°54'48.61125"	198.812
WVBR	N39°18'28.91342"	W80°16'38.64400"	268.986	N39°18'28.91334"	W80°16'38.64452"	269.016
VA01	N38°01'13.99972"	W78°00'53.07977"	111.255	N38°01'13.99937"	W78°00'53.08355"	111.436
LOYY	N38°53'18.57662"	W78°29'56.96636"	220.904	N38°53'18.57680"	W78°29'56.96698"	220.936
LOYQ	N39°38'02.62364"	W77°42'51.12042"	127.23	N39°38'02.62397"	W77°42'51.12108"	127.234
LOYJ	N38°28'20.92223"	W78°00'36.16893"	103.853	N38°28'20.92238"	W78°00'36.16922"	103.879
LOYI	N38°01'59.45426"	W78°30'42.43148"	154.965	N38°01'59.45434"	W78°30'42.43206"	154.981
LOYC	N39°07'12.57574"	W78°12'02.63171"	201.807	N39°07'12.57544"	W78°12'02.63236"	201.864
LOYB	N38°43'42.05158"	W77°11'02.31947"	-2.857	N38°43'42.05170"	W77°11'02.31999"	-2.857
LOYA	N38°25'33.92919"	W78°53'21.79756"	363.919	N38°25'33.92922"	W78°53'21.79816"	363.989

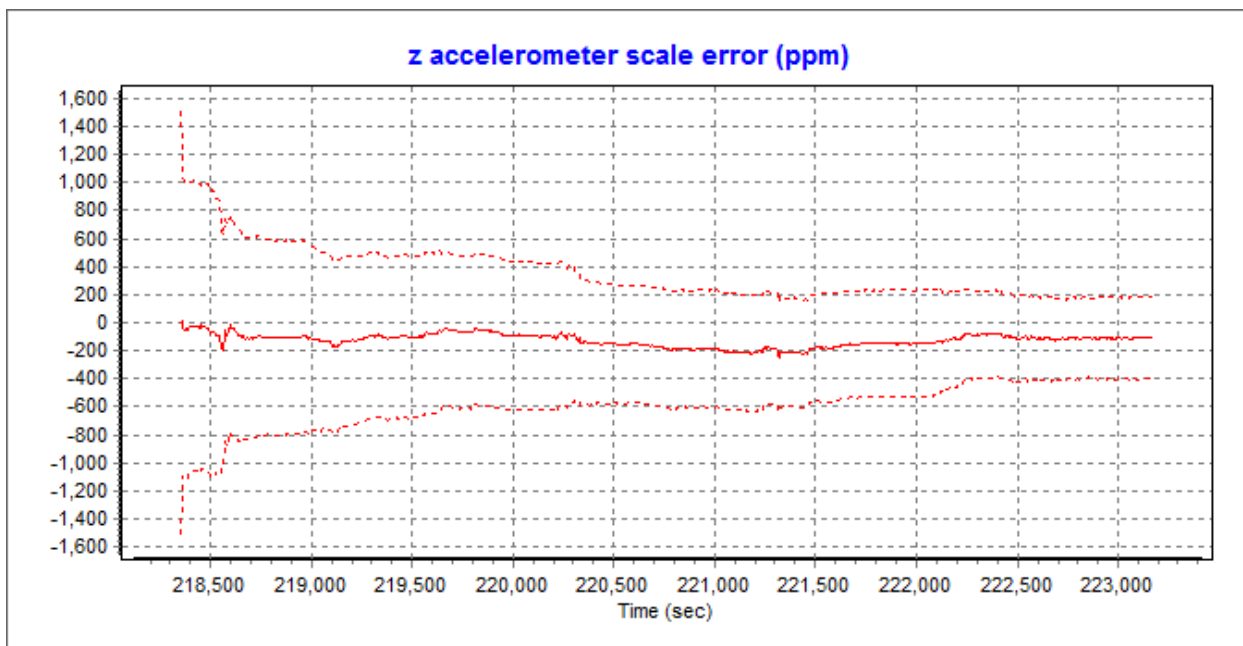
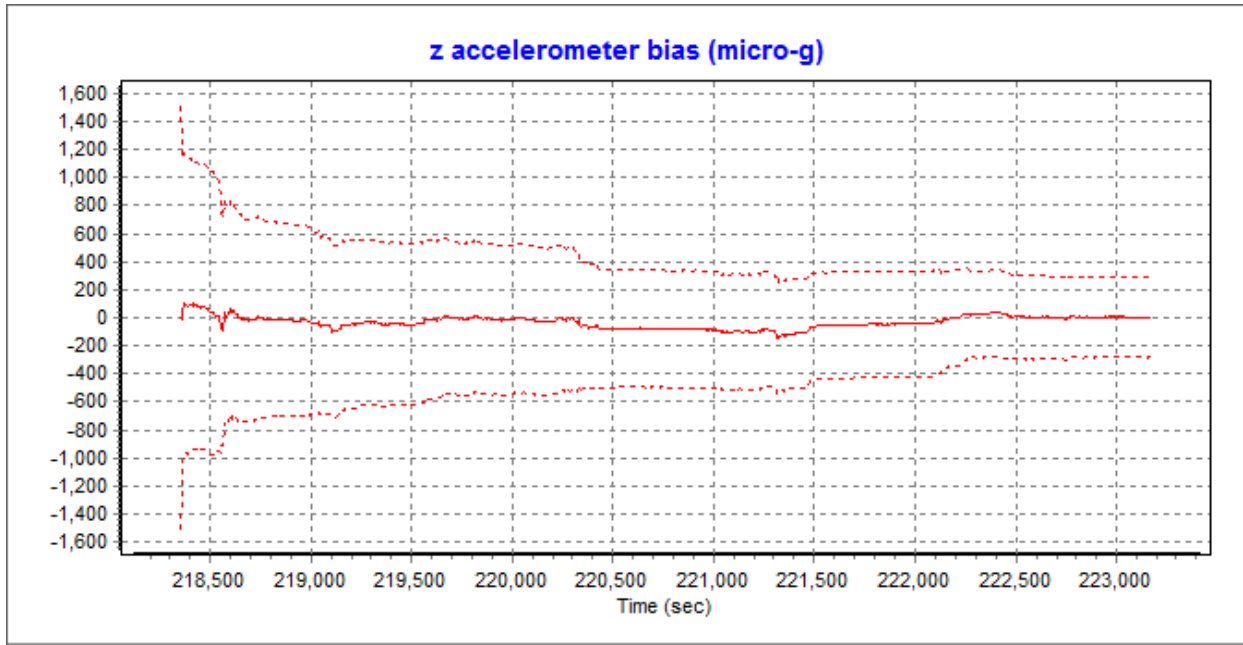


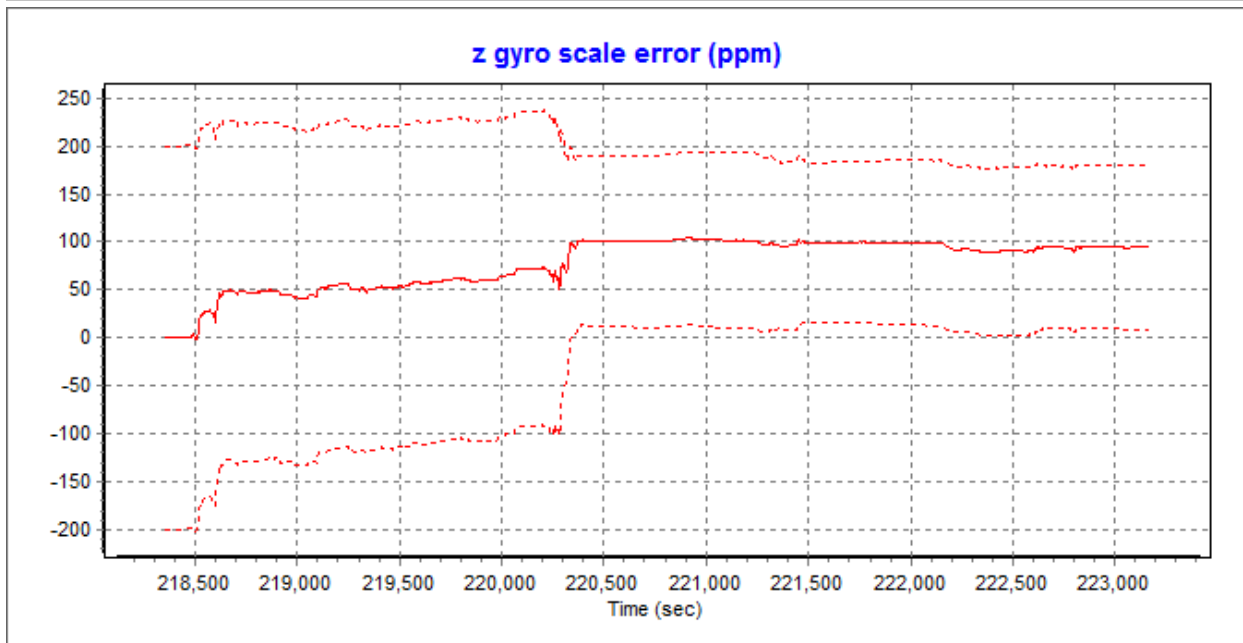
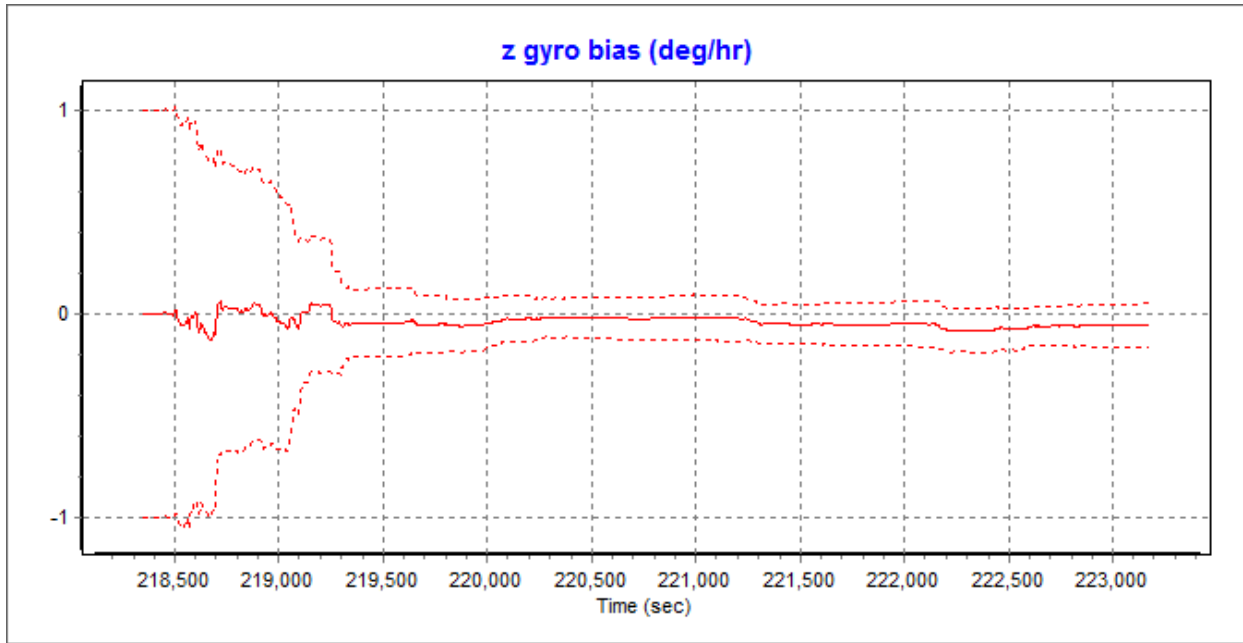


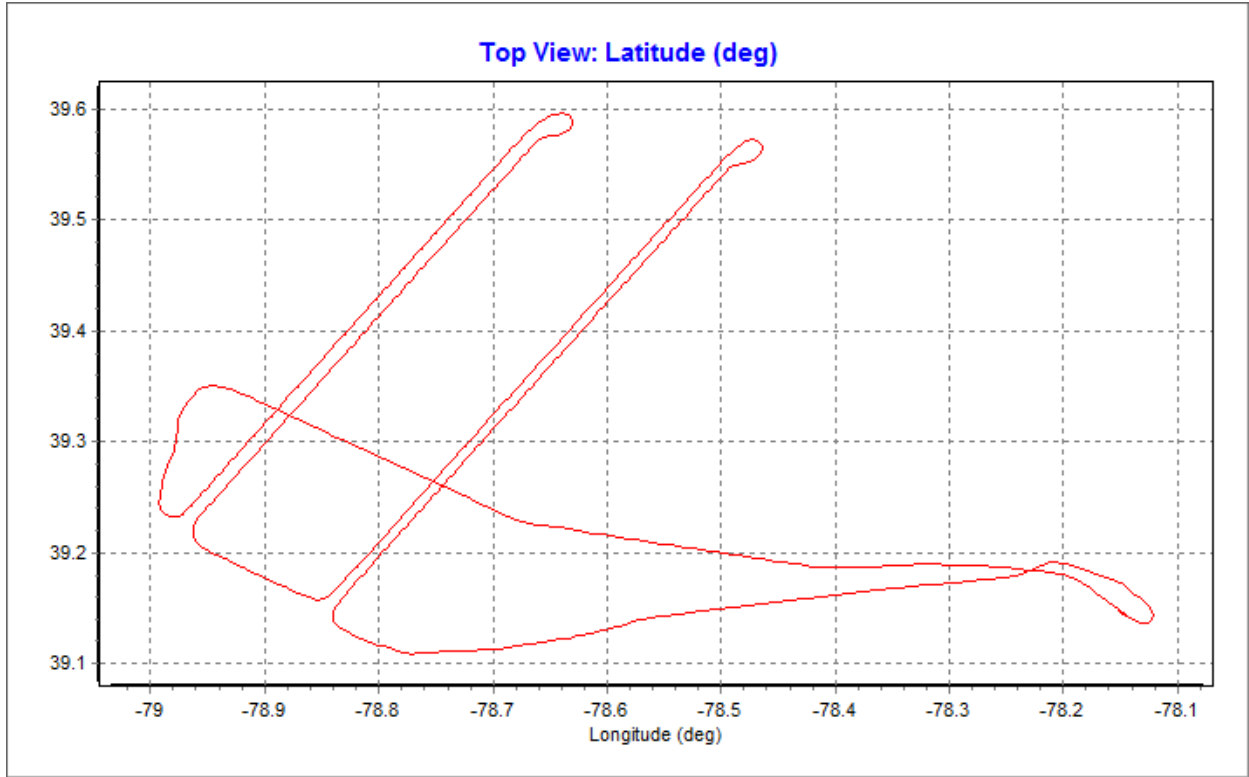


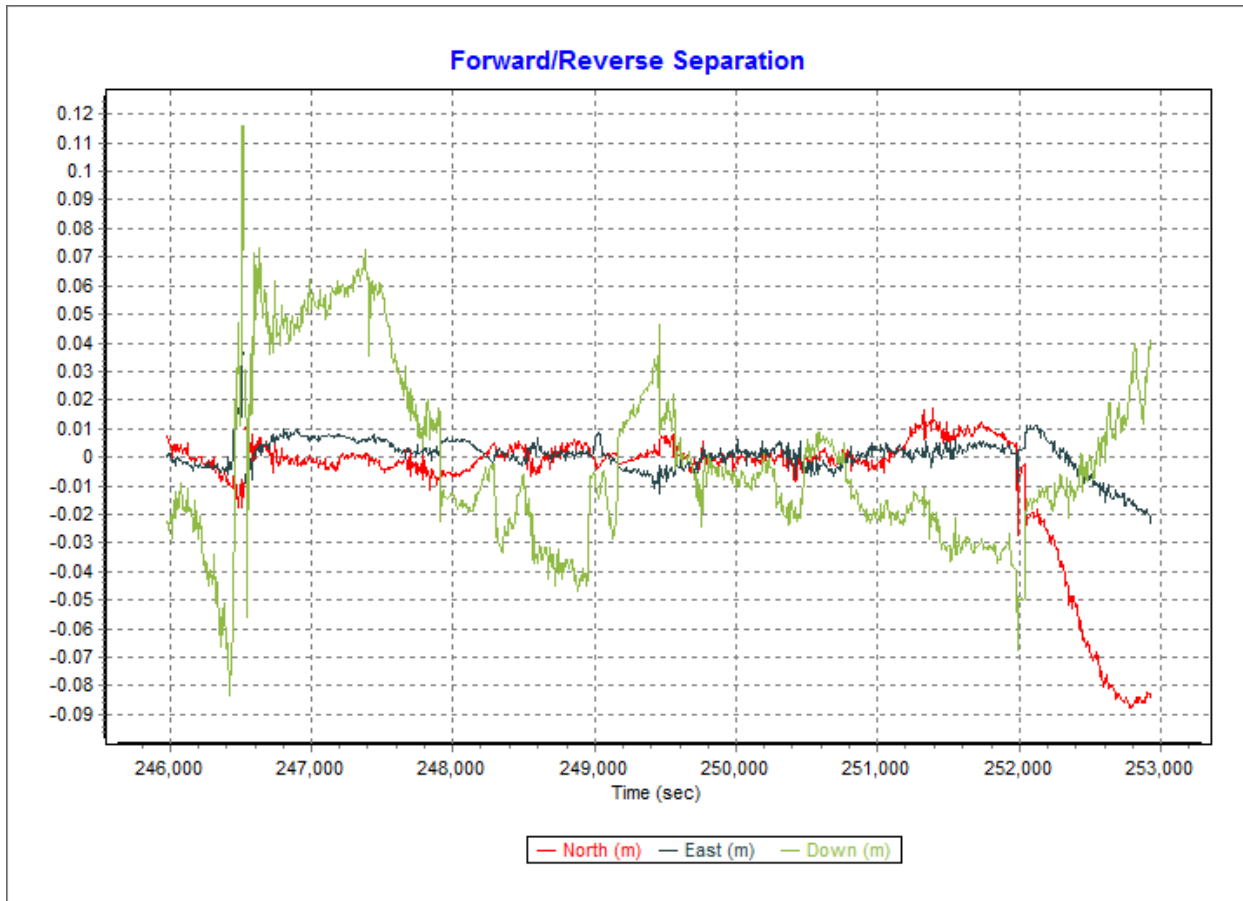


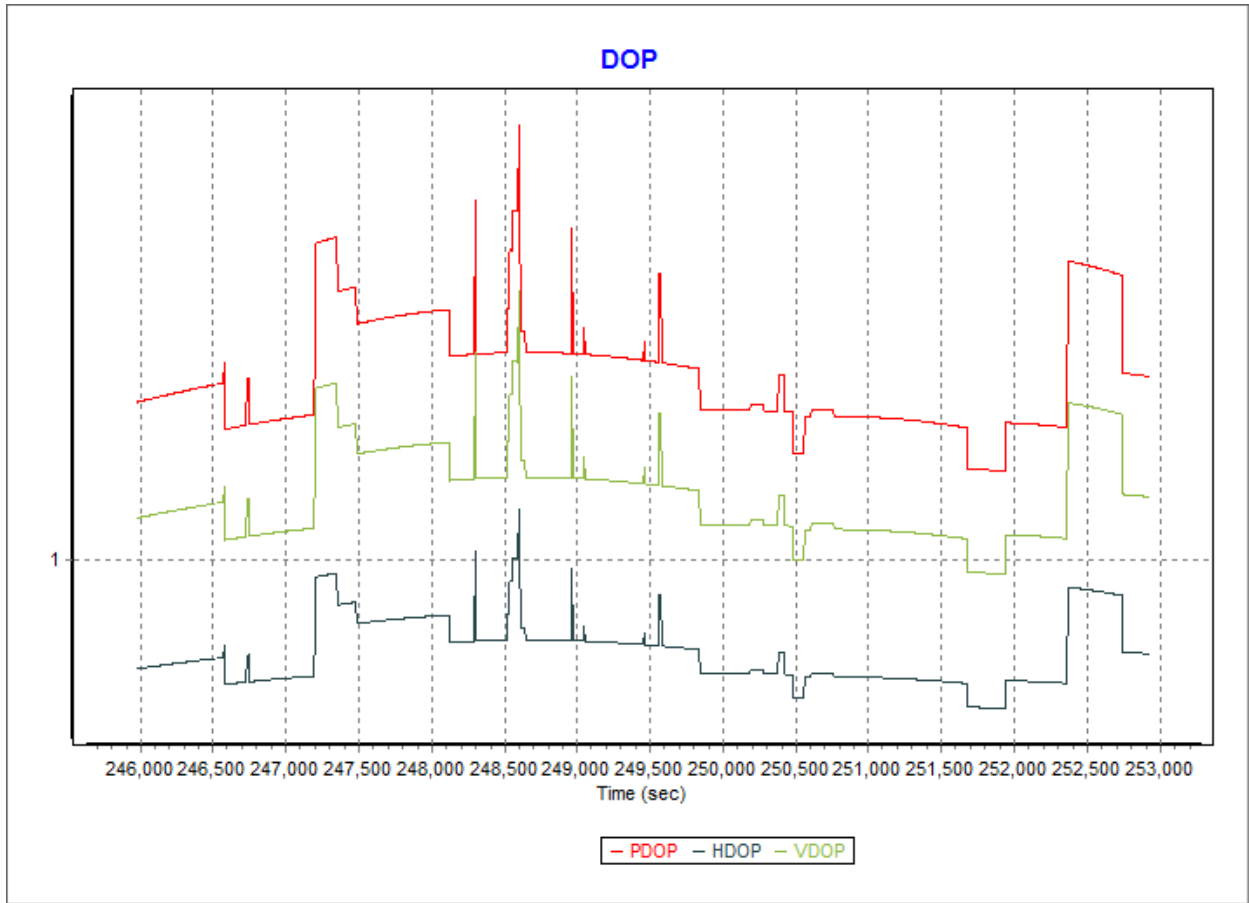




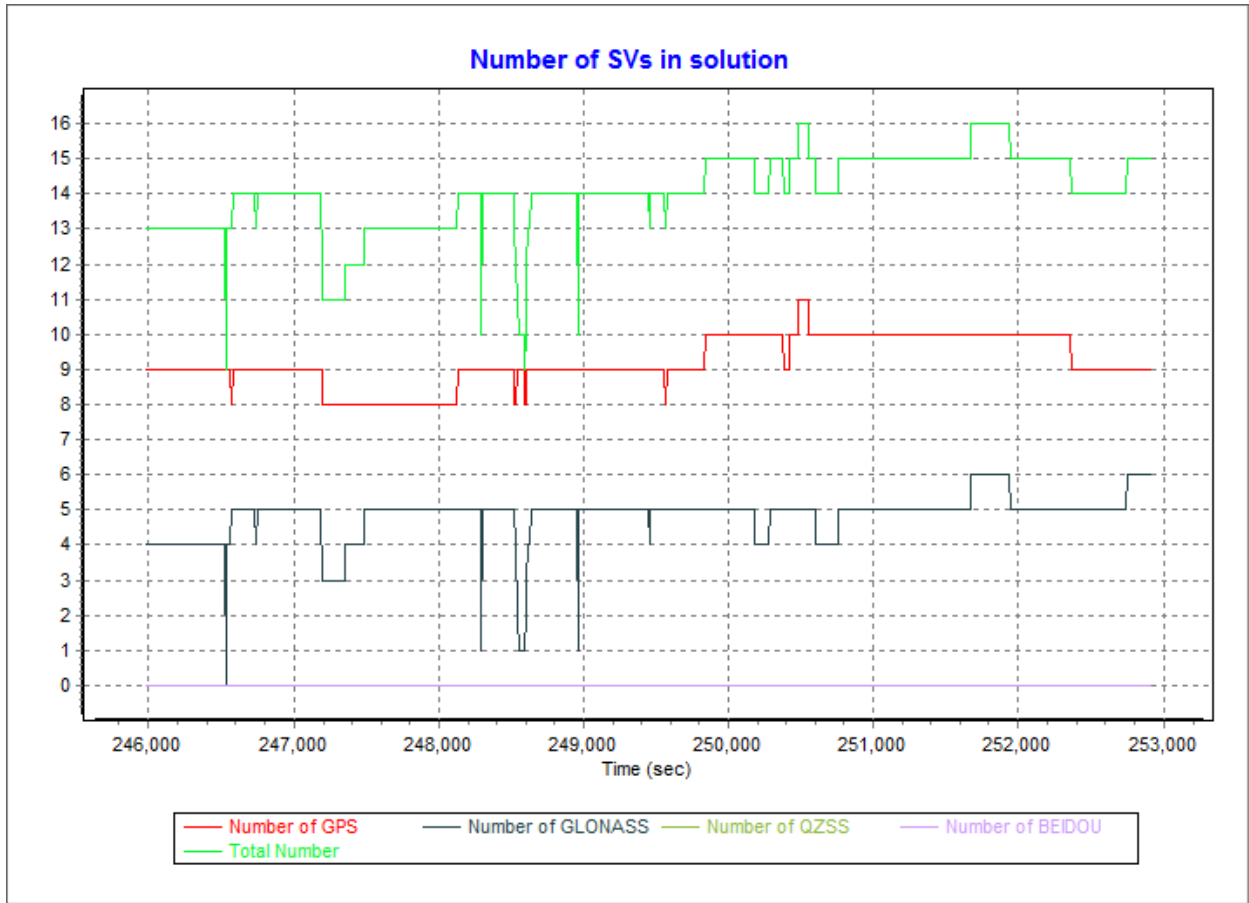












### Processing Summary Information

Program: POSPac MMS  
Version: 7.2.5934.15637  
Project: \\sa\data\216027\20161220\_WV\_B

Solution Type: IN-Fusion SmartBase

Fixed: 6961 (99.99%)  
Float: 0 (0.0%)  
No Solution: 1 (0.01%)

Number of Epochs:

Total in RAW file: 6970  
No processed position: 8

Fwd/Rev Separation RMS Values (m):

East: 0.006  
North: 0.023  
Height: 0.030

Fwd/Rev Sep. RMS for 25%-75% weighting (m): 3485 occurrences

East: 0.004  
North: 0.003  
Height: 0.019

Position Standard Deviation Percentages:

0.00 - 0.10 m: 100.0 %  
0.10 - 0.30 m: 0.0 %  
0.30 - 1.00 m: 0.0 %  
1.00 - 5.00 m: 0.0 %  
5.00 m + over: 0.0 %

Percentages of epochs with DD\_DOP over 10.00: 0 %

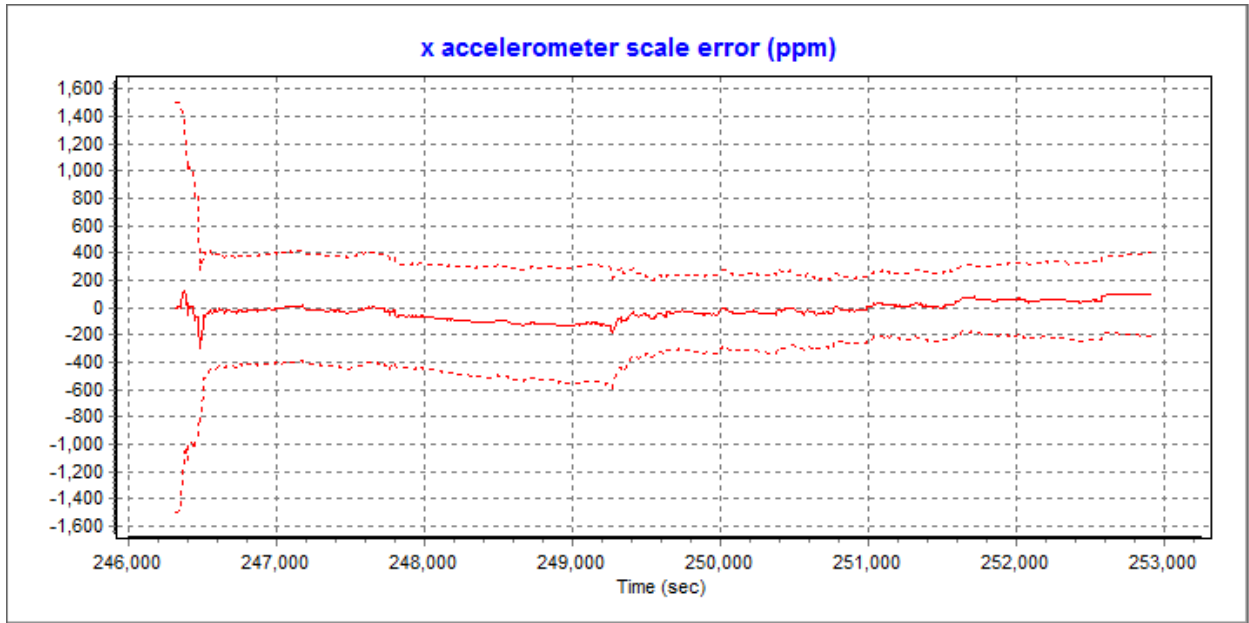
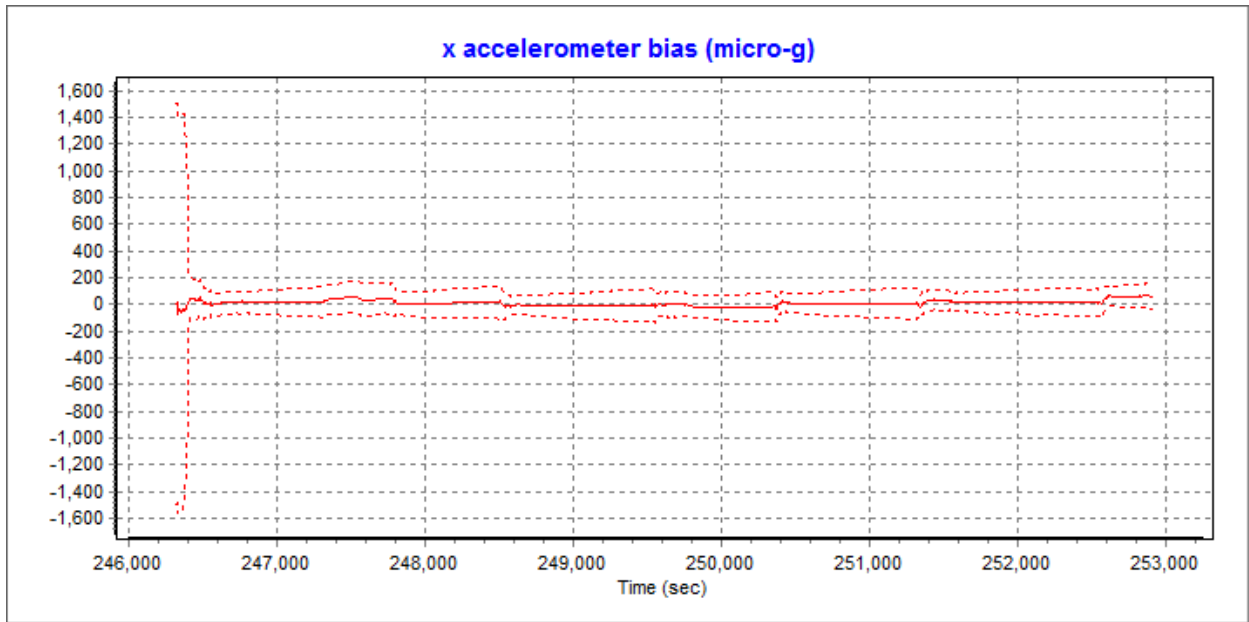
DOP over Tol: 1.39 %

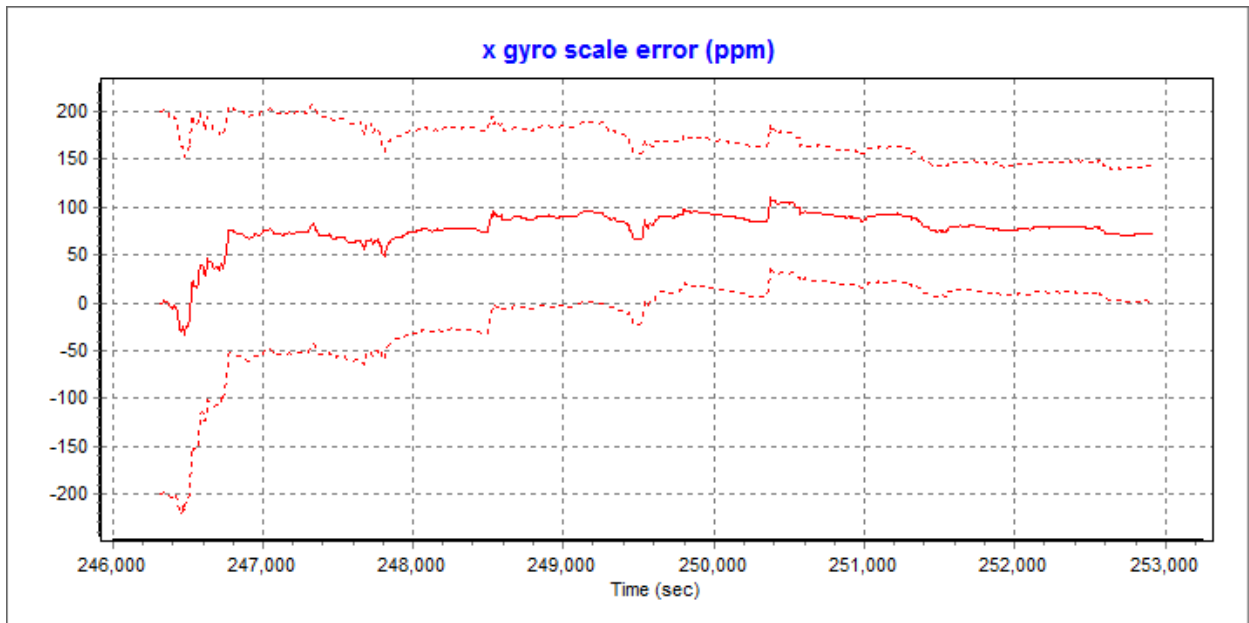
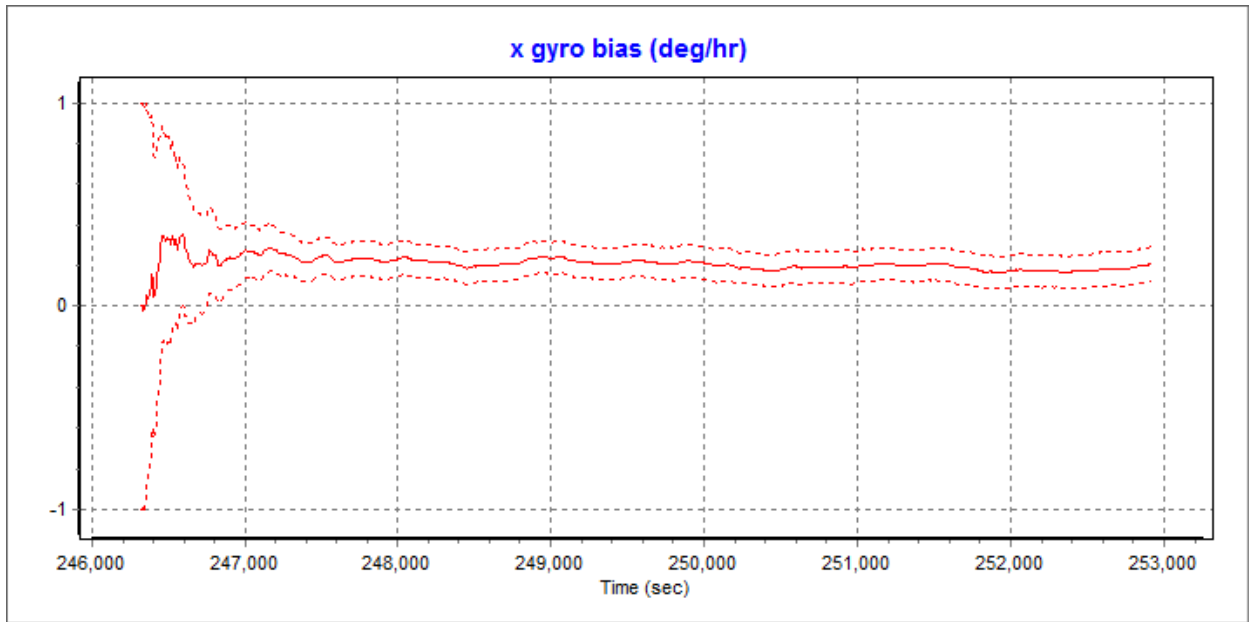
Baseline Distances (km):

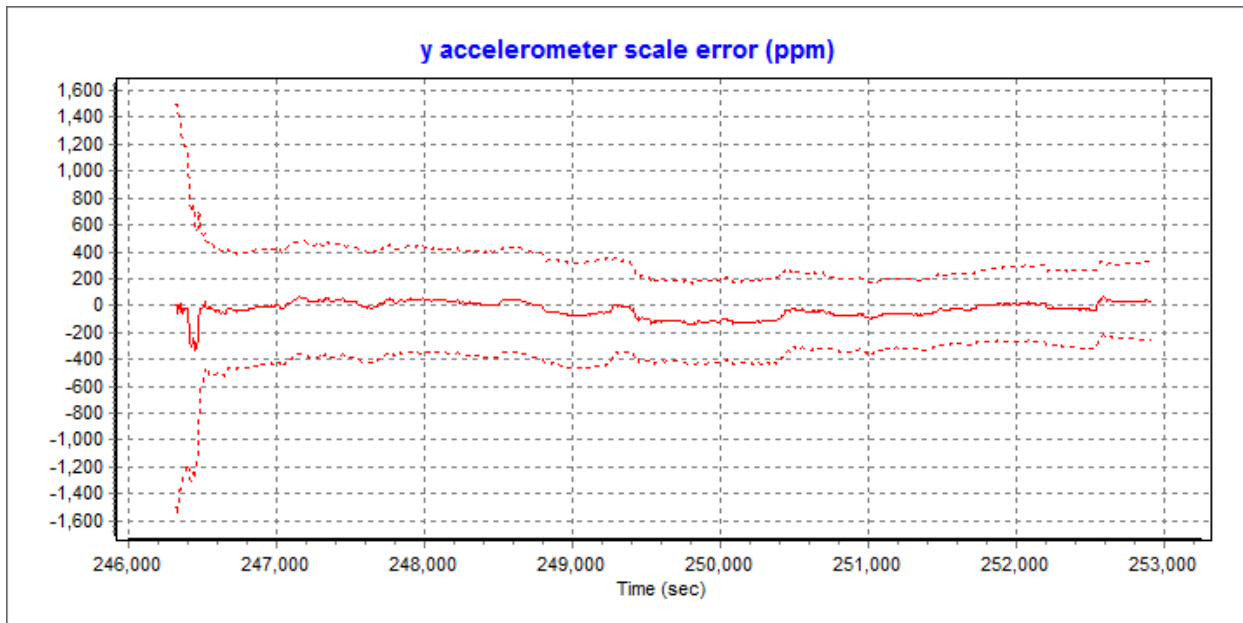
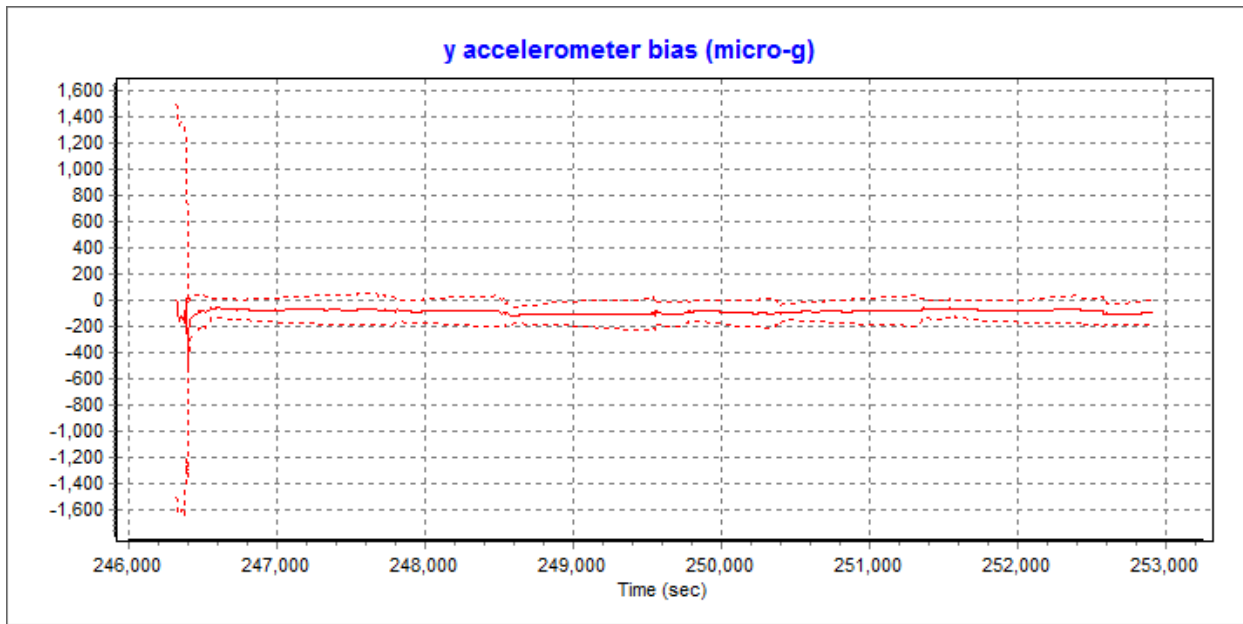
Maximum: 42.78  
Minimum: 7.22  
Average: 26.29  
First Epoch: 40.80  
Last Epoch: 70.71

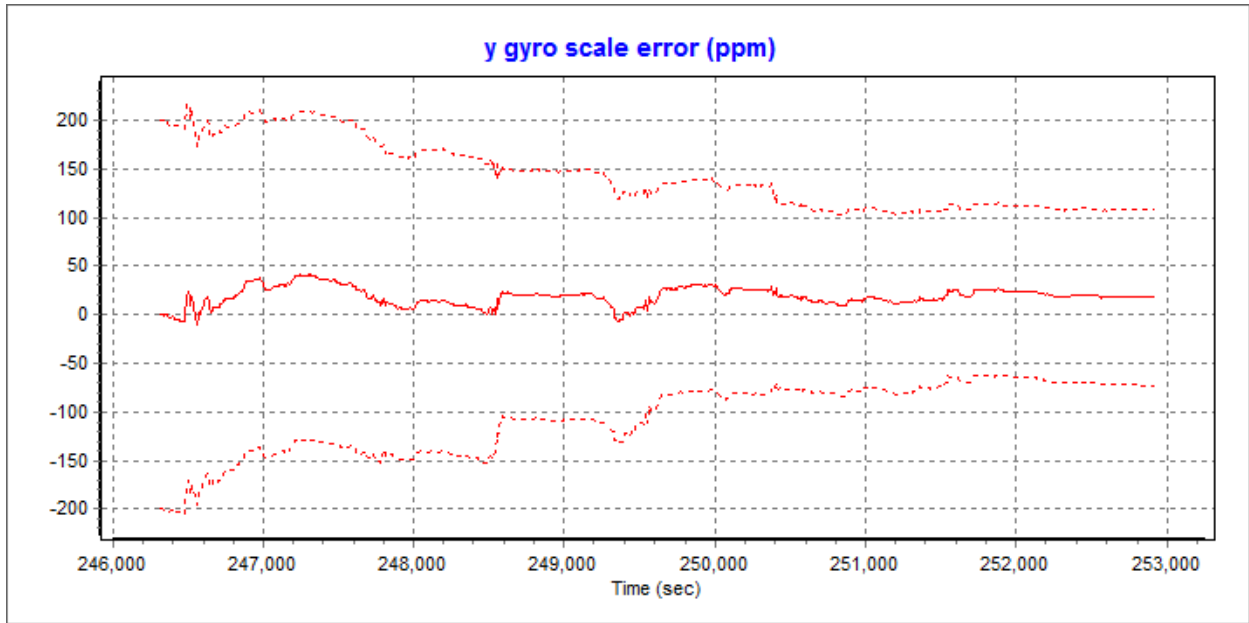
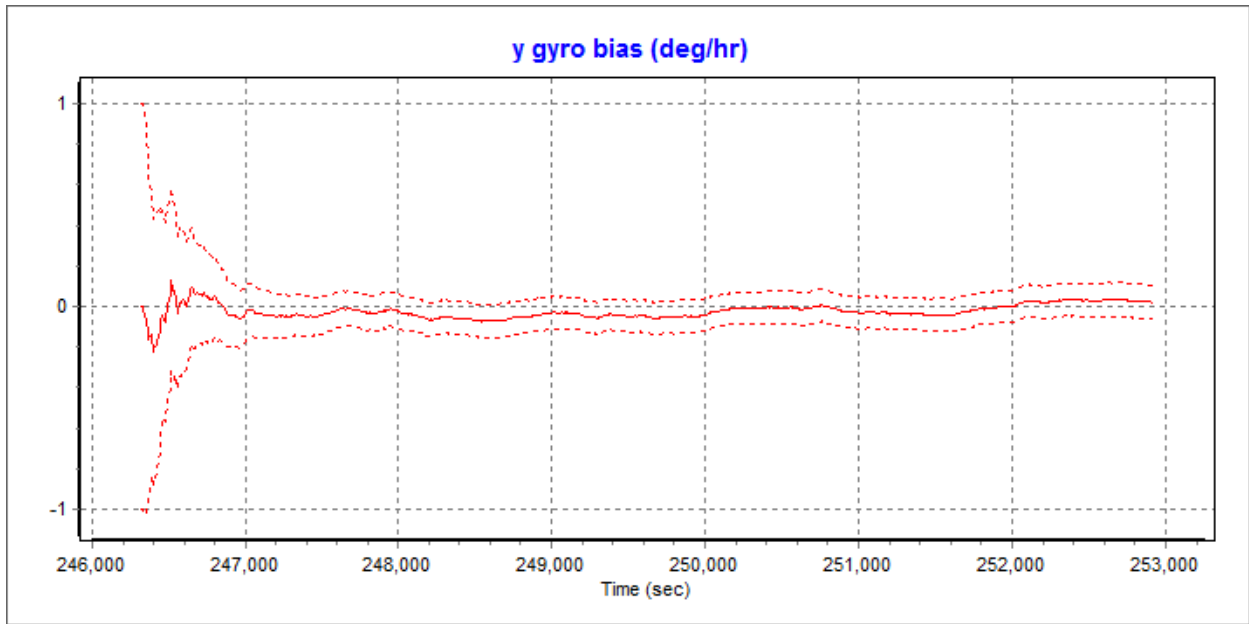
### CORS Base Stations

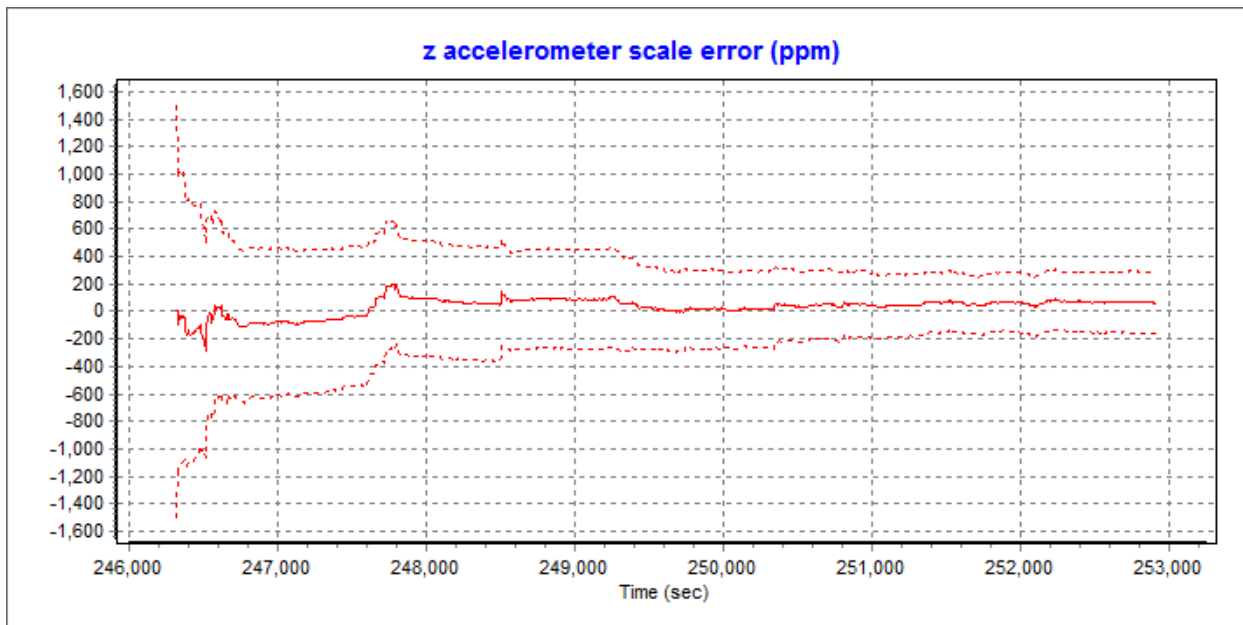
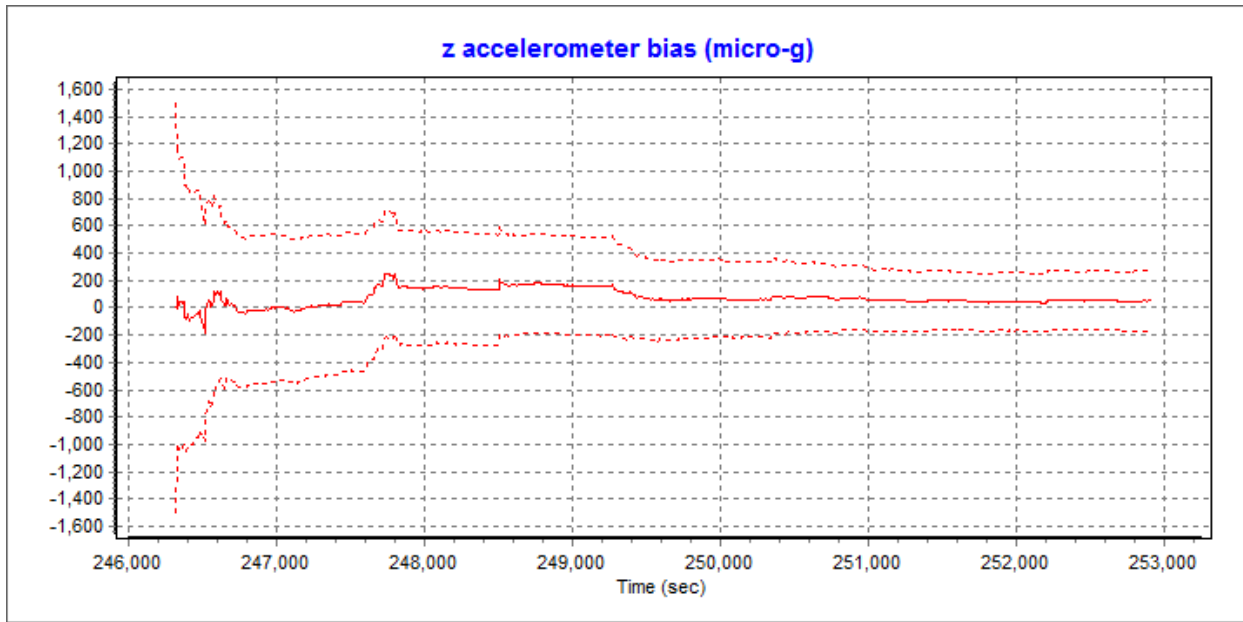
Station	Original			Adjusted		
	Latitude	Longitude	Altitude (m)	Latitude	Longitude	Altitude (m)
PAFU	N39°55'35.71879"	W79°41'50.53568"	326.765	N39°55'35.71850"	W79°41'50.53491"	326.78
ZDC1	N39°06'05.74451"	W77°32'33.88933"	79.596	N39°06'05.74449"	W77°32'33.88921"	79.628
PAWG	N40°18'19.27228"	W79°30'22.40232"	334.926	N40°18'19.27208"	W79°30'22.40232"	334.951
PAFC	N39°56'49.44386"	W77°40'11.19017"	175.871	N39°56'49.44351"	W77°40'11.19007"	175.894
LWX1	N38°58'21.66394"	W77°29'18.98433"	60.728	N38°58'21.66383"	W77°29'18.98438"	60.76
LOYP	N38°01'13.85597"	W79°01'07.26280"	392.062	N38°01'13.85574"	W79°01'07.26264"	392.112
LOYI	N38°01'59.45426"	W78°30'42.43142"	154.965	N38°01'59.45418"	W78°30'42.43131"	154.977
PAGW	N39°53'56.14859"	W80°09'36.40313"	262.753	N39°53'56.14773"	W80°09'36.40195"	262.769
PAFM	N39°57'44.94246"	W77°58'43.64066"	285.509	N39°57'44.94232"	W77°58'43.64058"	285.517
LOYQ	N39°38'02.62363"	W77°42'51.12036"	127.23	N39°38'02.62384"	W77°42'51.12033"	127.229
LOYJ	N38°28'20.92222"	W78°00'36.16887"	103.853	N38°28'20.92220"	W78°00'36.16844"	103.874
LOYY	N38°53'18.57661"	W78°29'56.96630"	220.904	N38°53'18.57668"	W78°29'56.96624"	220.931
LOYS	N39°38'46.42051"	W78°43'47.92091"	168.093	N39°38'46.42051"	W78°43'47.92091"	168.093
LOYC	N39°07'12.57573"	W78°12'02.63165"	201.807	N39°07'12.57544"	W78°12'02.63176"	201.863
LOYA	N38°25'33.92918"	W78°53'21.79750"	363.919	N38°25'33.92907"	W78°53'21.79728"	363.984
ALLG	N39°39'13.91860"	W78°43'50.52687"	174.48	N39°39'13.91854"	W78°43'50.52678"	174.517

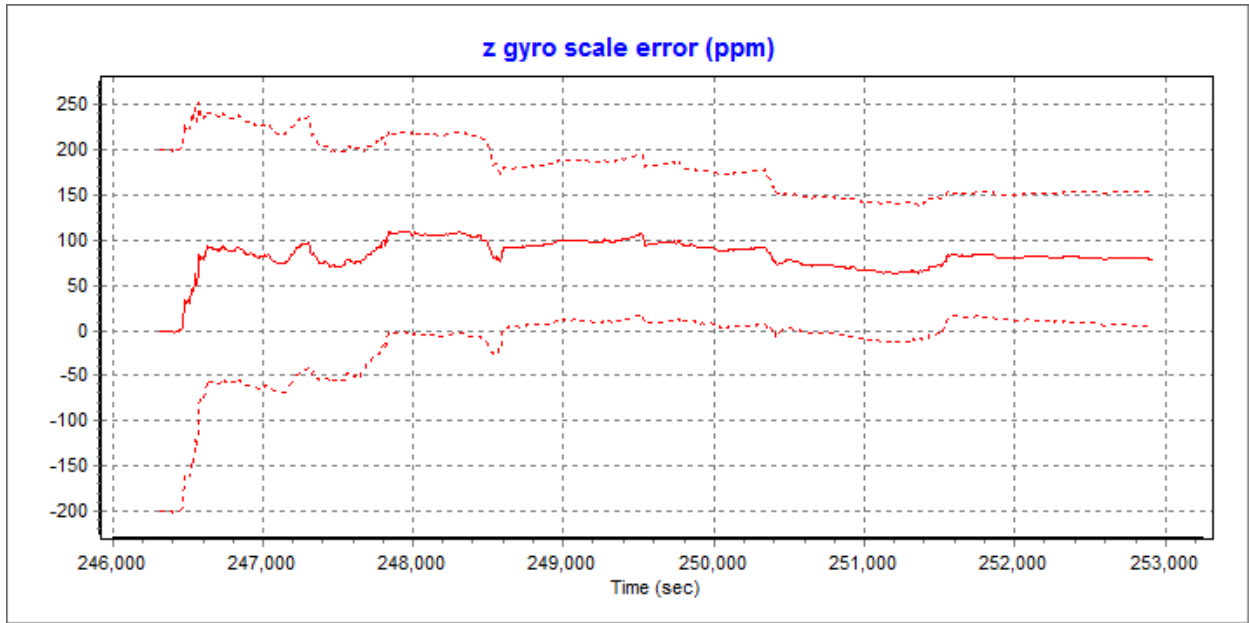
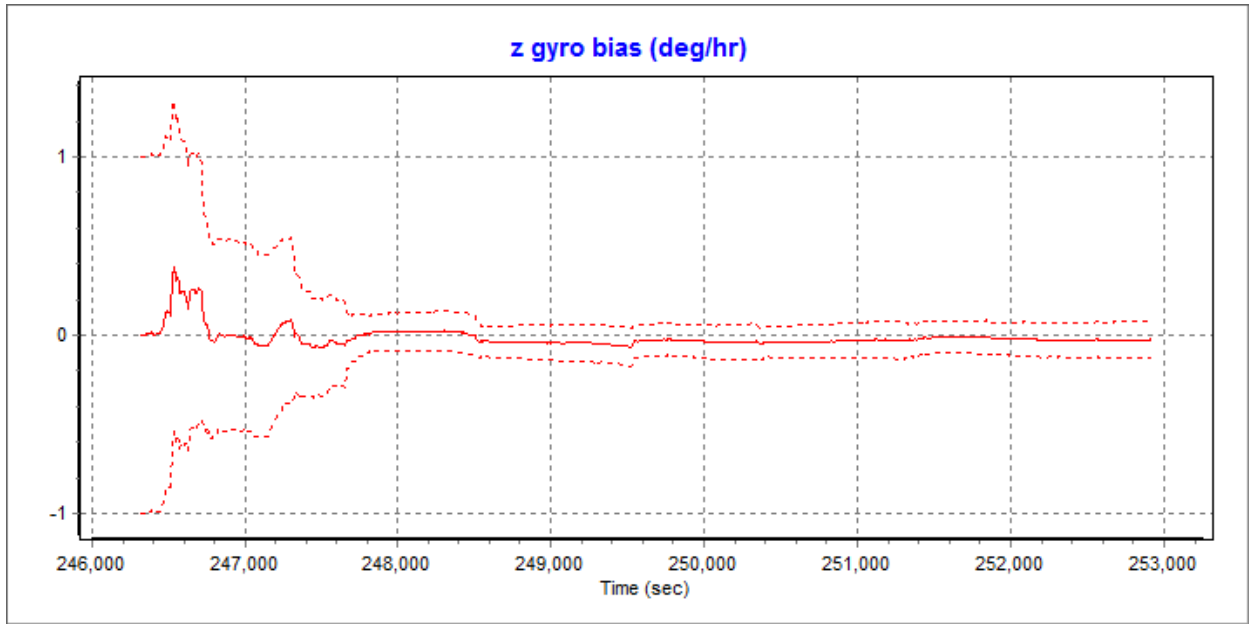




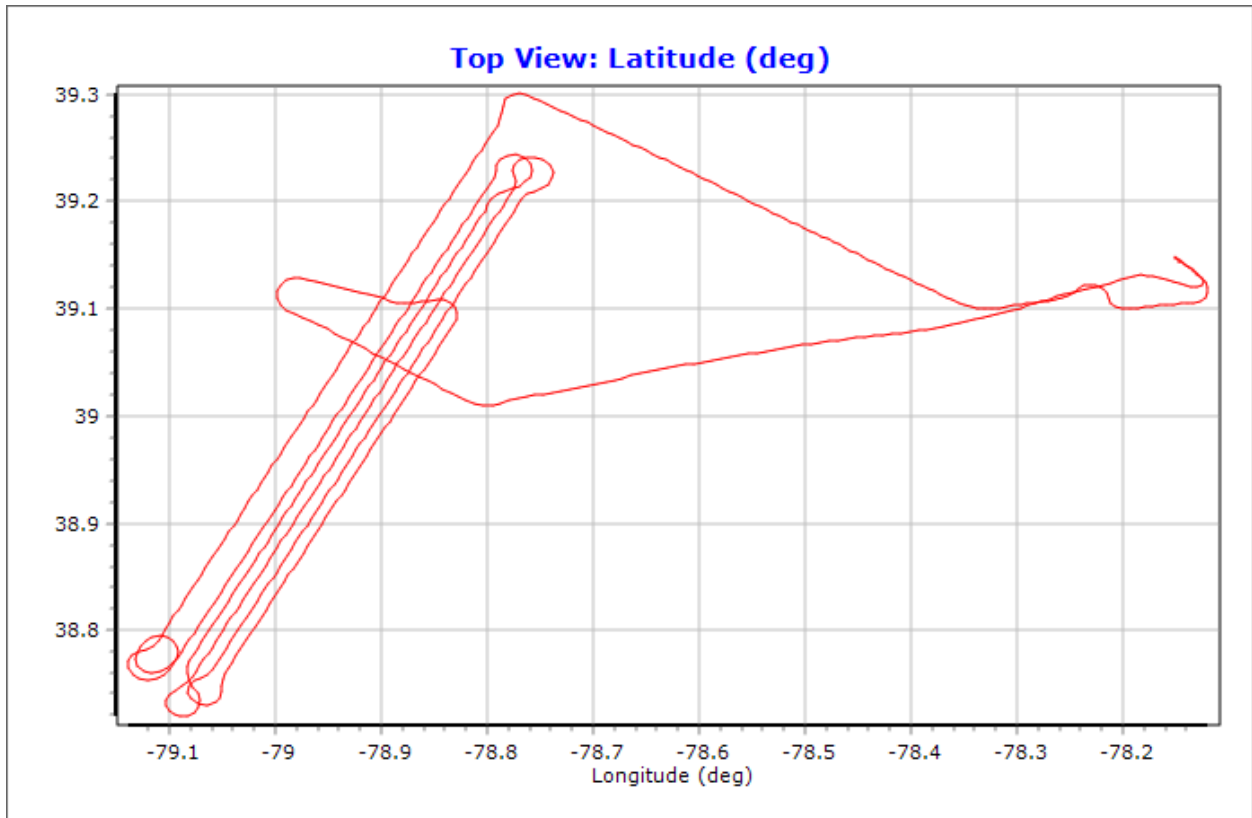


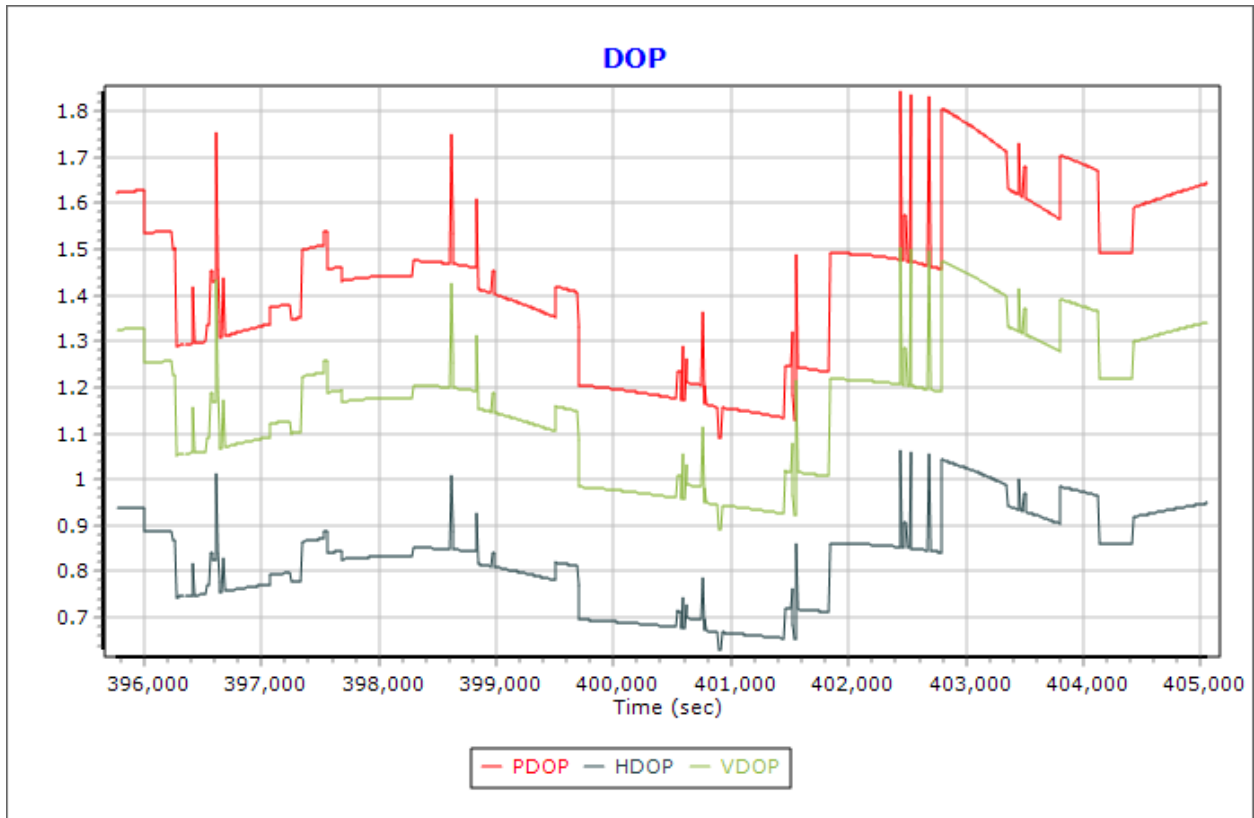


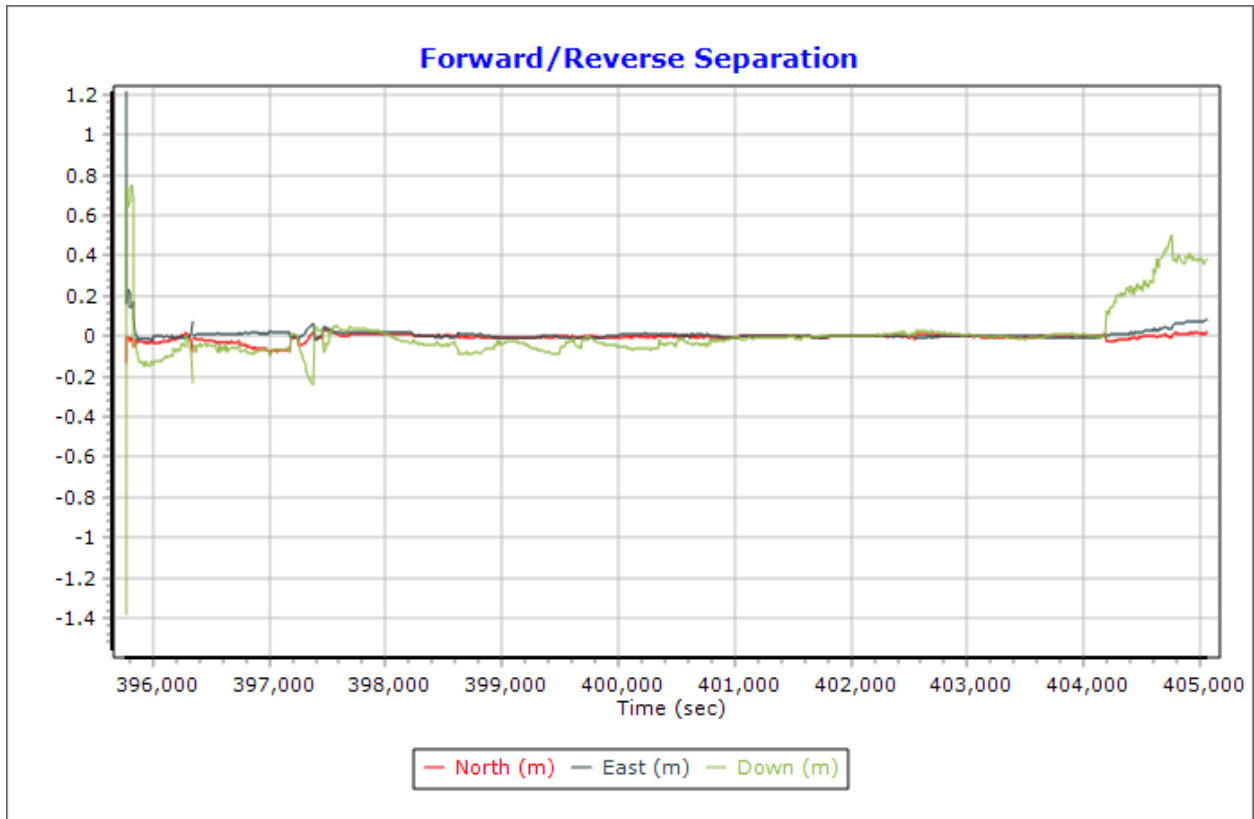


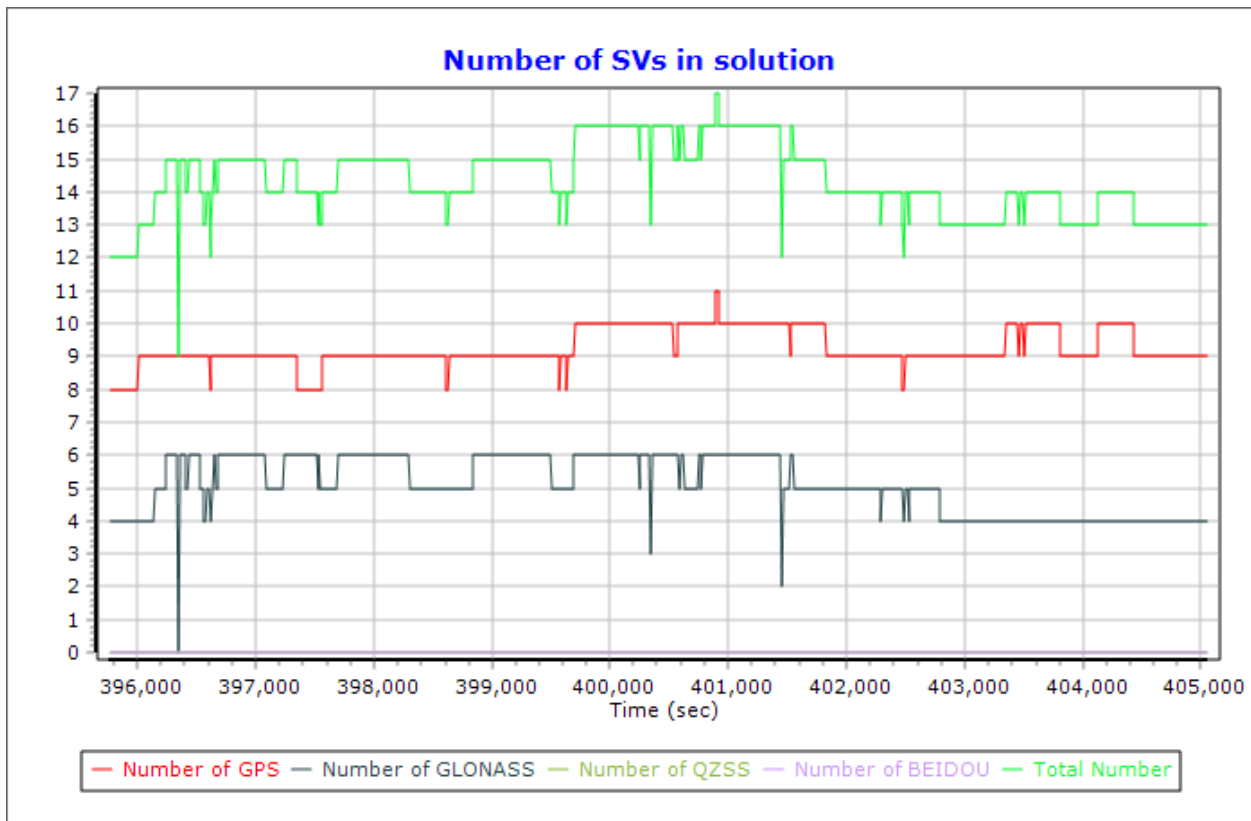












Processing Summary Information

Program: POSpac MMS

Version: 7.2.5934.15637

Project: \\sa\data\216027\20170323\_WV\_A\05\_INS-GPS\_PROC\01\_POS\20170323\_WV\_A.pospac

Solution Type: IN-Fusion SmartBase

Fixed: 9247 (99.25%)

Float: 69 (0.74%)

No Solution: 1 (0.01%)

Number of Epochs:

Total in RAW file: 9321

No processed position: 74

Fwd/Rev Separation RMS Values (m):

East: 0.050

North: 0.018

Height: 0.135

Fwd/Rev Sep. RMS for 25%-75% weighting (m): 4660 occurrences

East: 0.007

North: 0.005

Height: 0.040

Position Standard Deviation Percentages:

0.00 - 0.10 m: 98.87 %

0.10 - 0.30 m: 1.13 %

0.30 - 1.00 m: 0.0 %

1.00 - 5.00 m: 0.0 %

5.00 m + over: 0.0 %

Percentages of epochs with DD\_DOP over 10.00: 0 %

DOP over Tol: 1.43 %

Baseline Distances (km):

Maximum: 54.56

Minimum: 1.48

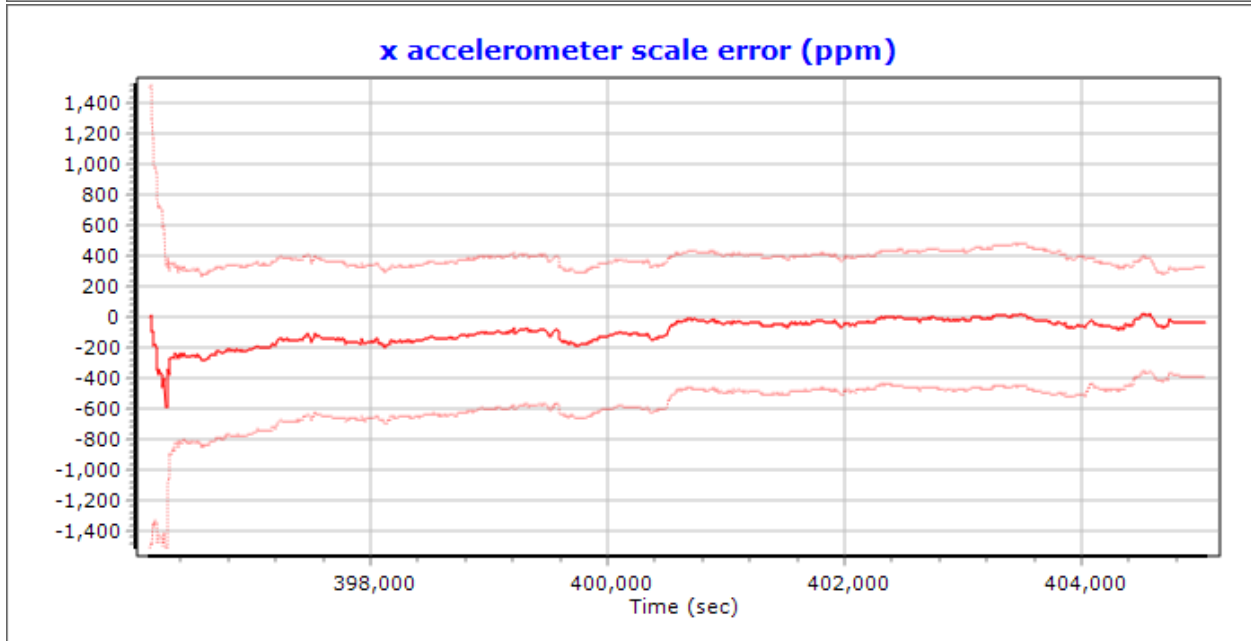
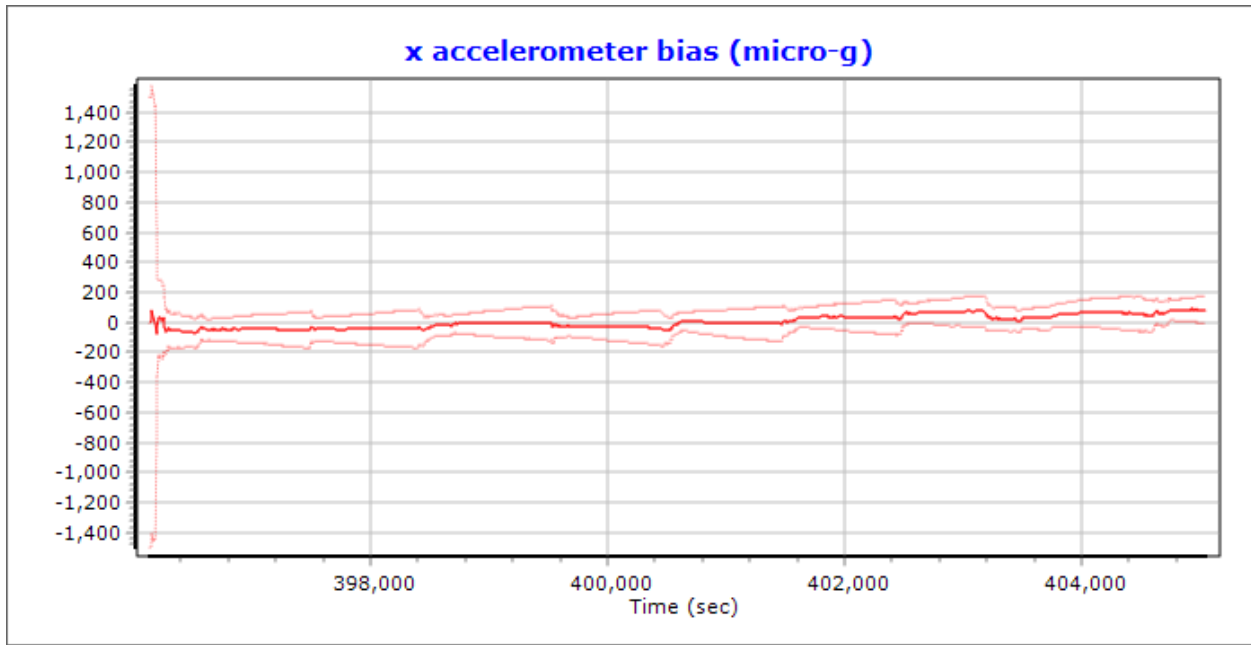
Average: 28.70

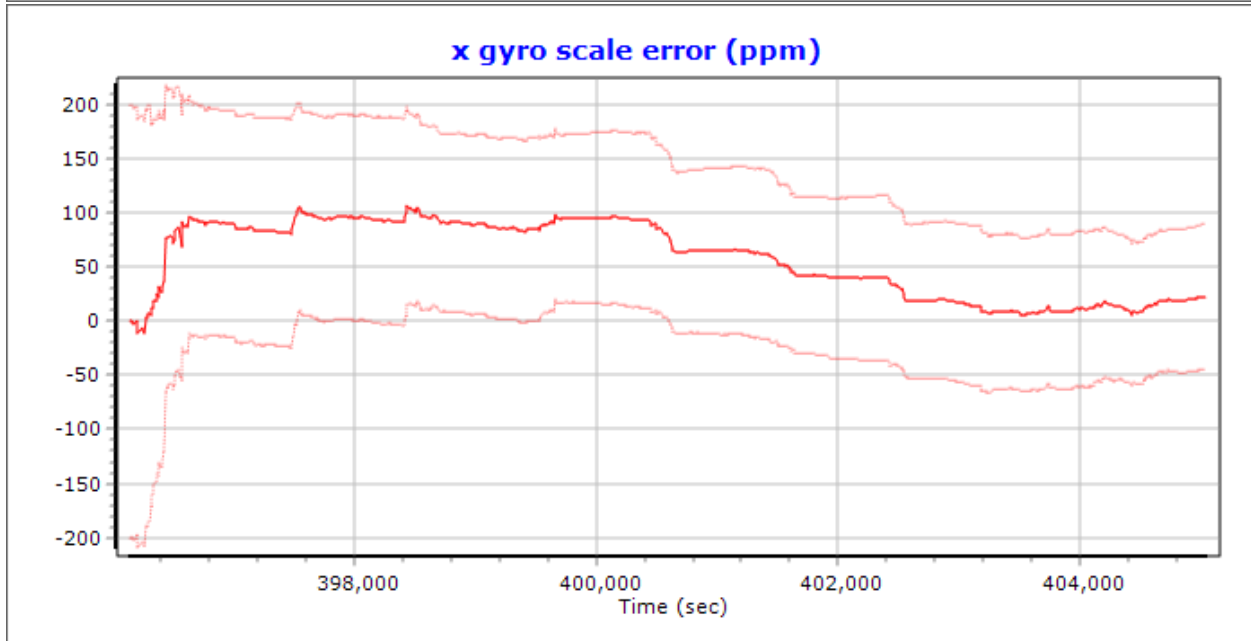
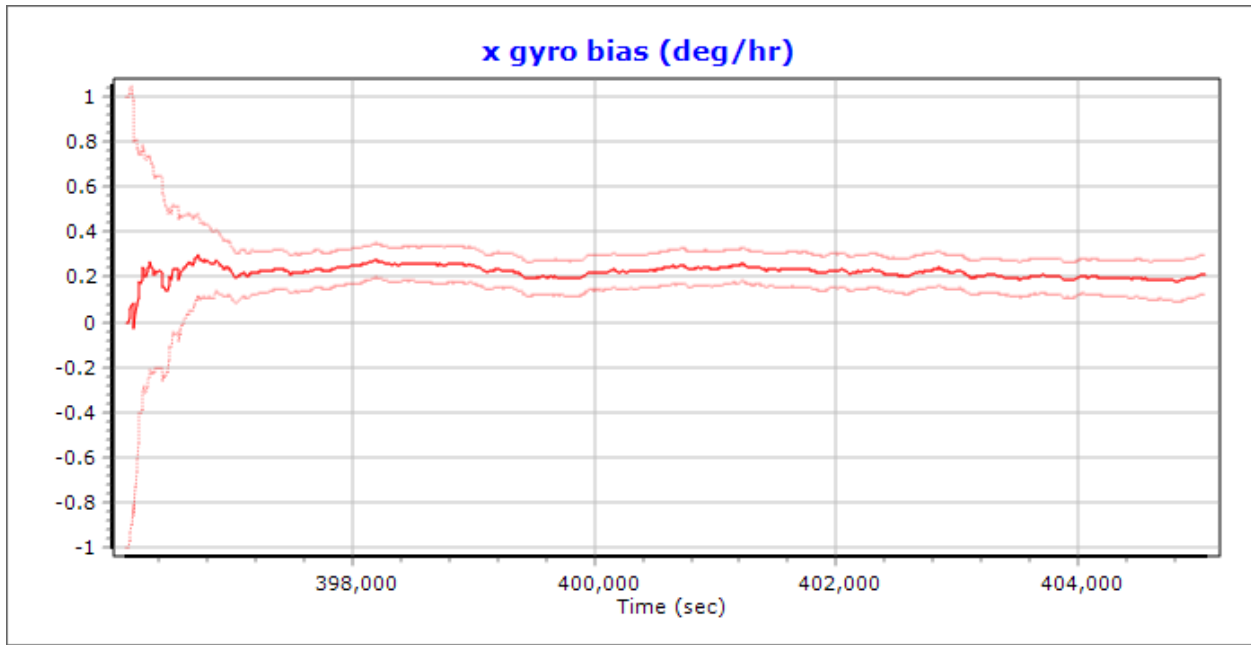
First Epoch: 52.91

Last Epoch: 52.91

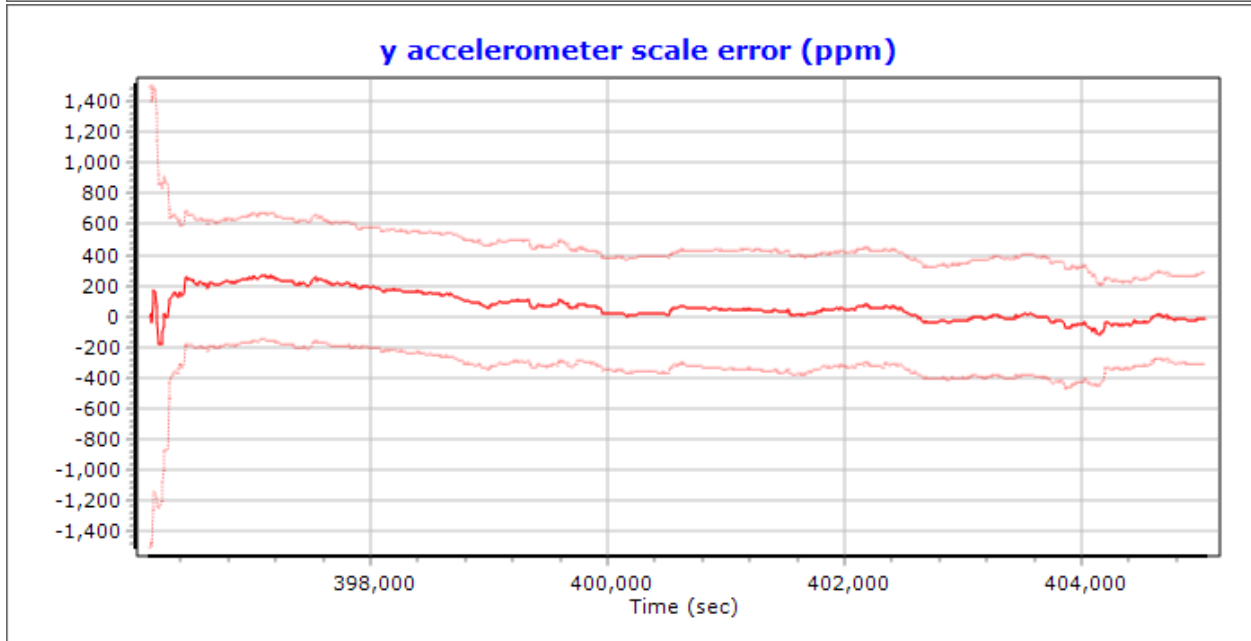
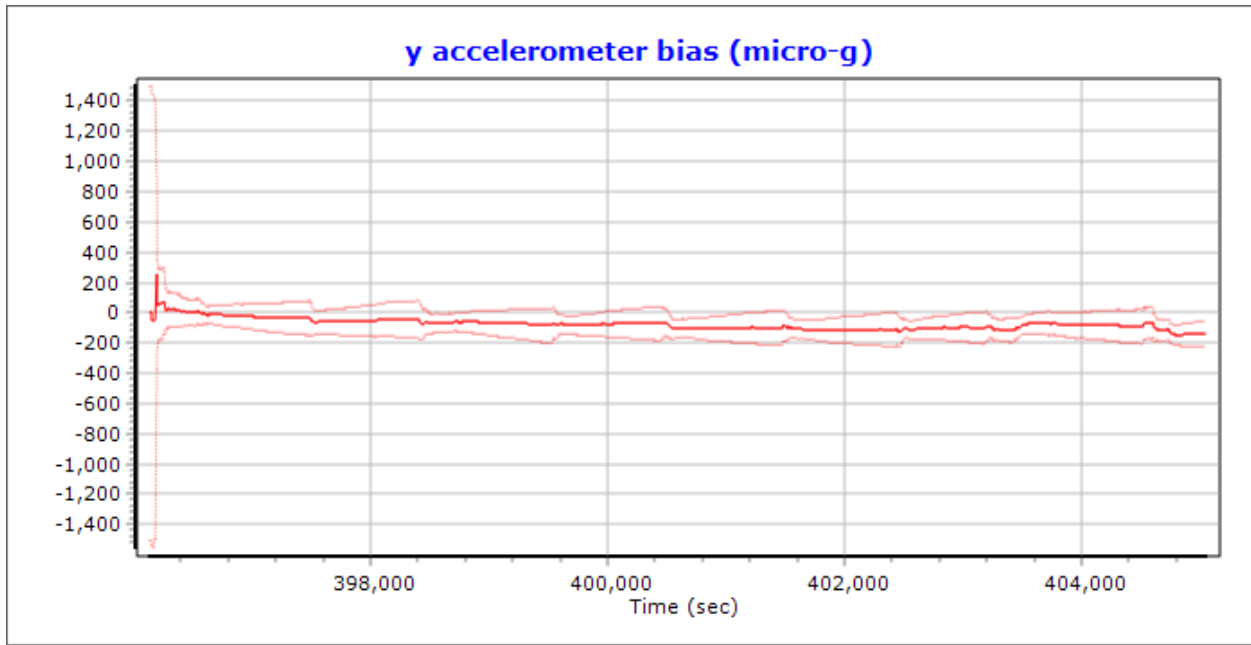
### CORS Base Stations

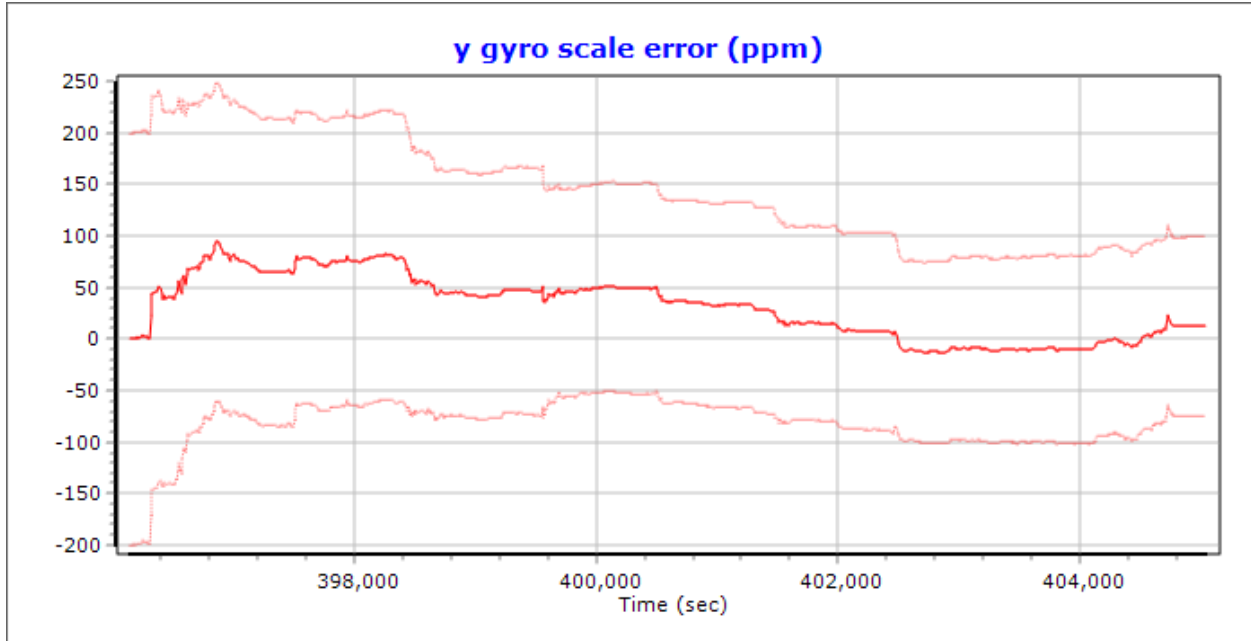
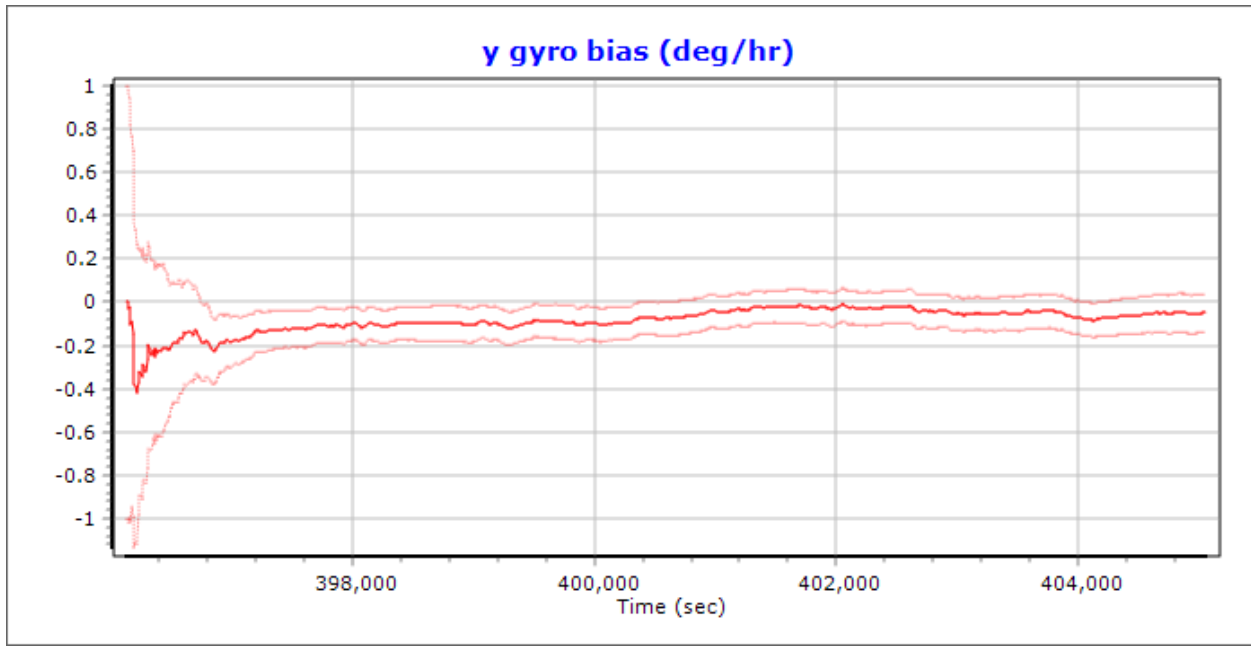
Station	Original (m)			Adjusted (m)		
	Latitude	Longitude	Altitude	Latitude	Longitude	Altitude
WVBU	N39°20'16.85148"	W78°54'48.61144"	198.793	N39°20'16.85125"	W78°54'48.61115"	198.785
ZDC1	N39°06'05.74453"	W77°32'33.88955"	79.595	N39°06'05.74455"	W77°32'33.88949"	79.609
WVNR	N38°53'44.53446"	W79°51'30.29456"	581.5	N38°53'44.53441"	W79°51'30.29468"	581.496
WVMF	N39°04'32.37375"	W78°55'57.02182"	312.272	N39°04'32.37375"	W78°55'57.02182"	312.272
WVGB	N38°25'48.45400"	W79°49'01.31939"	811.181	N38°25'48.45372"	W79°49'01.31962"	811.179
WVBR	N39°18'28.91343"	W80°16'38.64416"	268.986	N39°18'28.91325"	W80°16'38.64446"	268.996
VA01	N38°01'13.99976"	W78°00'53.07972"	111.247	N38°01'13.99935"	W78°00'53.08318"	111.413
UVFM	N37°52'43.49371"	W78°41'37.27118"	512.94	N37°52'43.49362"	W78°41'37.27110"	512.943
PAFU	N39°55'35.71866"	W79°41'50.53531"	326.746	N39°55'35.71850"	W79°41'50.53559"	326.763
PAFM	N39°57'44.94249"	W77°58'43.64088"	285.509	N39°57'44.94247"	W77°58'43.64094"	285.495
LOYY	N38°53'18.57664"	W78°29'56.96652"	220.904	N38°53'18.57675"	W78°29'56.96664"	220.909
LOYP	N38°01'13.85599"	W79°01'07.26301"	392.062	N38°01'13.85589"	W79°01'07.26305"	392.094
LOYJ	N38°28'20.92225"	W78°00'36.16909"	103.853	N38°28'20.92237"	W78°00'36.16884"	103.856
LOYI	N38°01'59.45428"	W78°30'42.43163"	154.965	N38°01'59.45432"	W78°30'42.43166"	154.953
LOYC	N39°07'12.57576"	W78°12'02.63187"	201.807	N39°07'12.57552"	W78°12'02.63200"	201.841
LOYB	N38°43'42.05160"	W77°11'02.31962"	-2.857	N38°43'42.05163"	W77°11'02.31964"	-2.874
LOYA	N38°25'33.92921"	W78°53'21.79771"	363.919	N38°25'33.92917"	W78°53'21.79797"	363.964
LOY8	N38°16'58.72084"	W77°27'09.48975"	-6.206	N38°16'58.72095"	W77°27'09.49014"	-6.201
ALLG	N39°39'13.91862"	W78°43'50.52709"	174.48	N39°39'13.91863"	W78°43'50.52726"	174.496

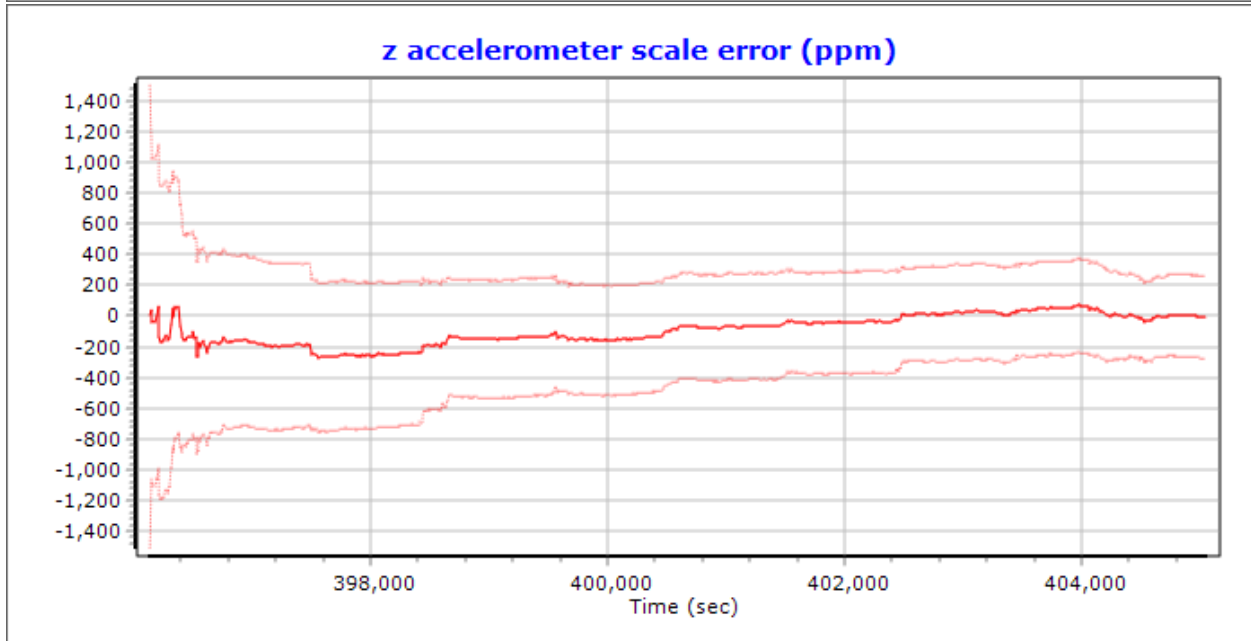
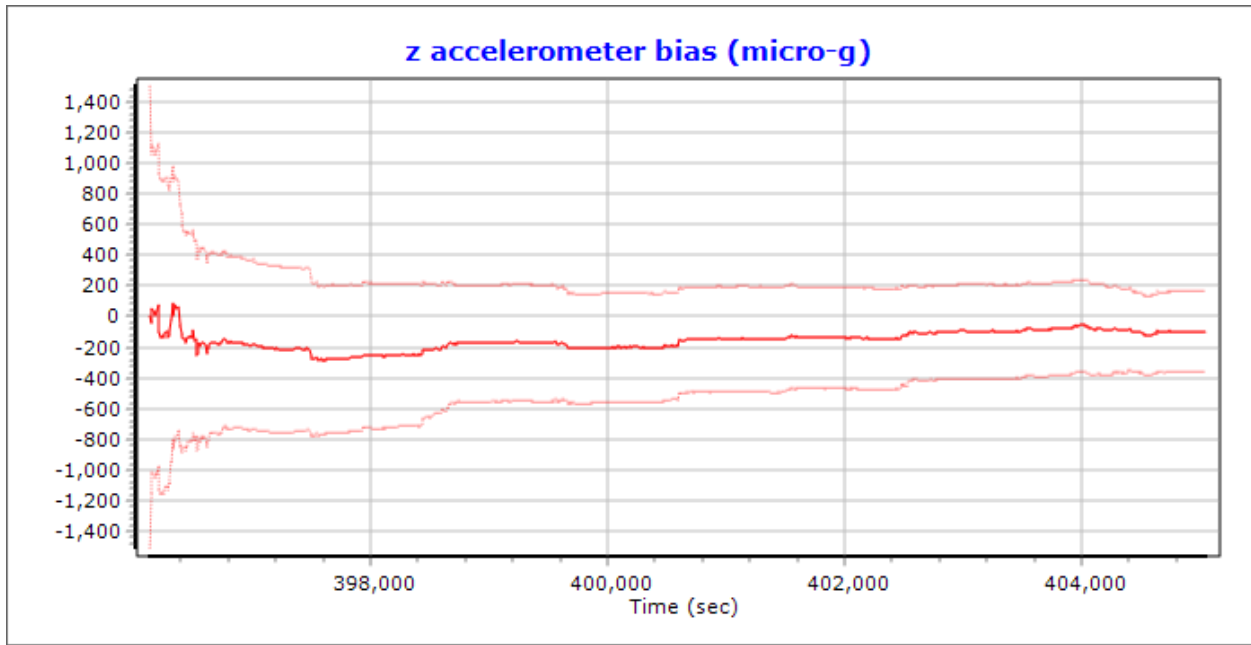


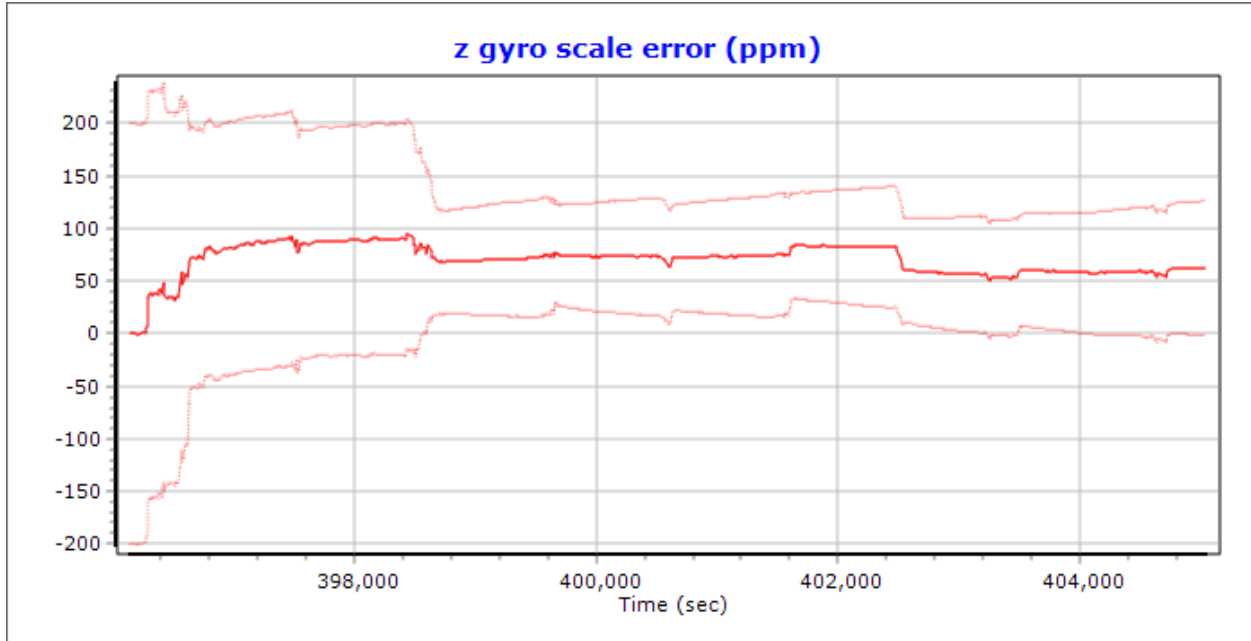
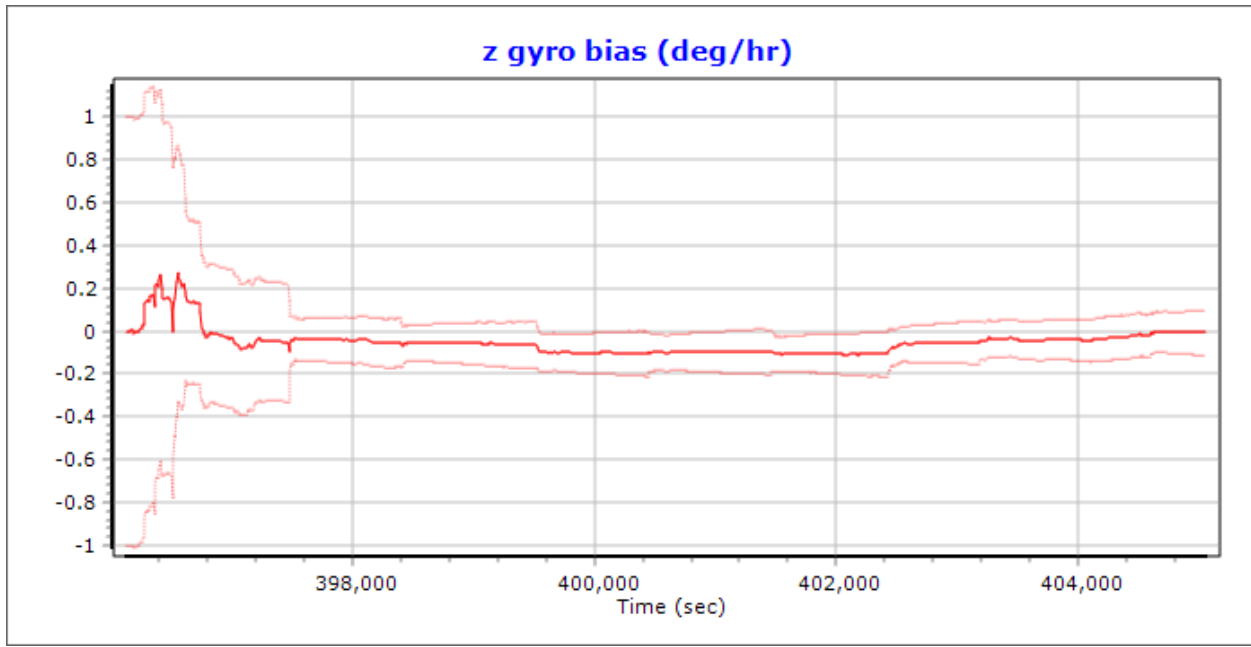


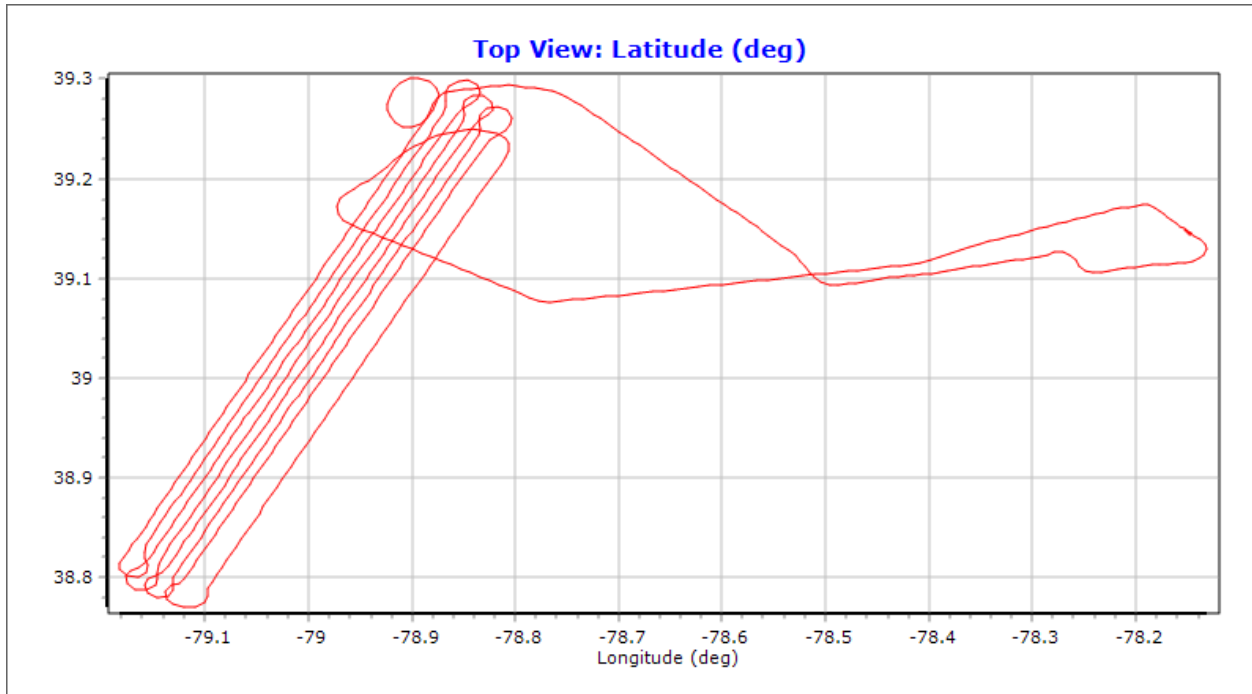


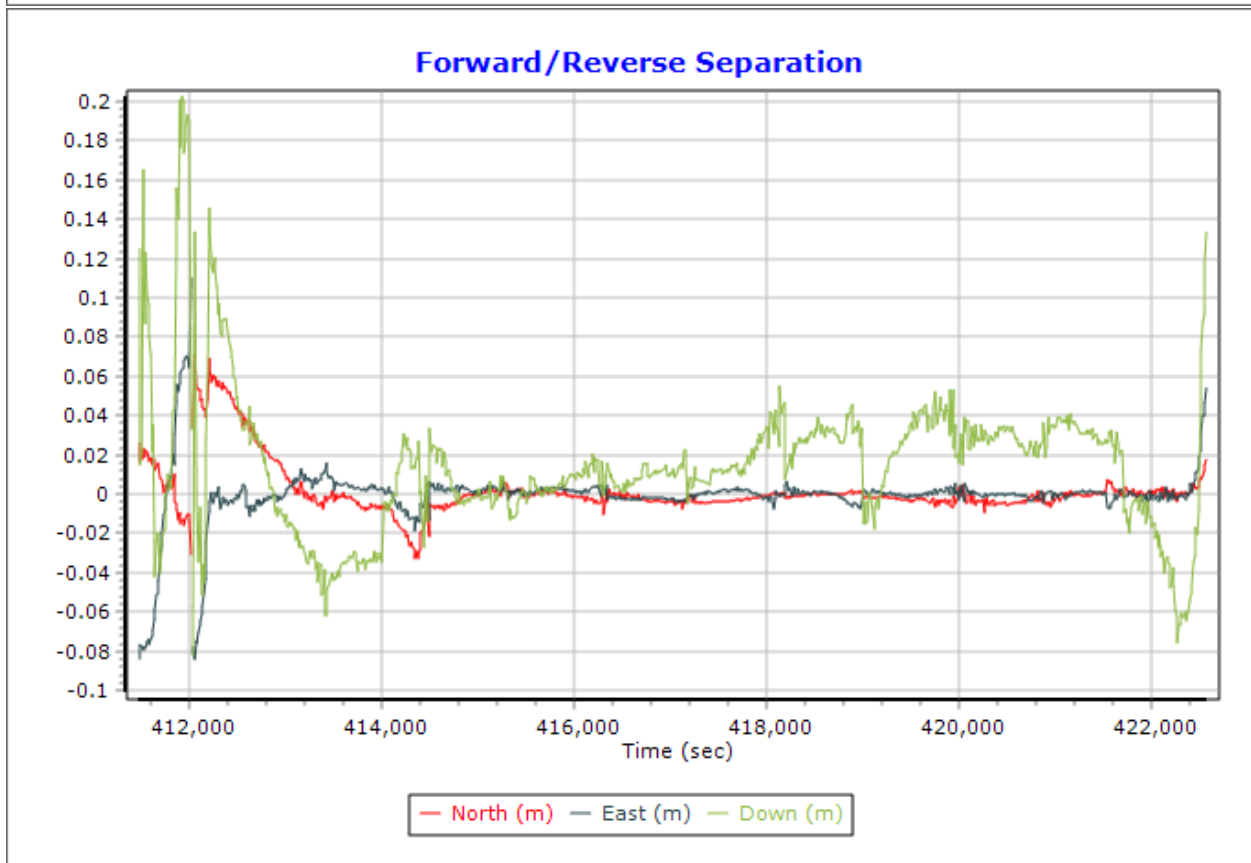
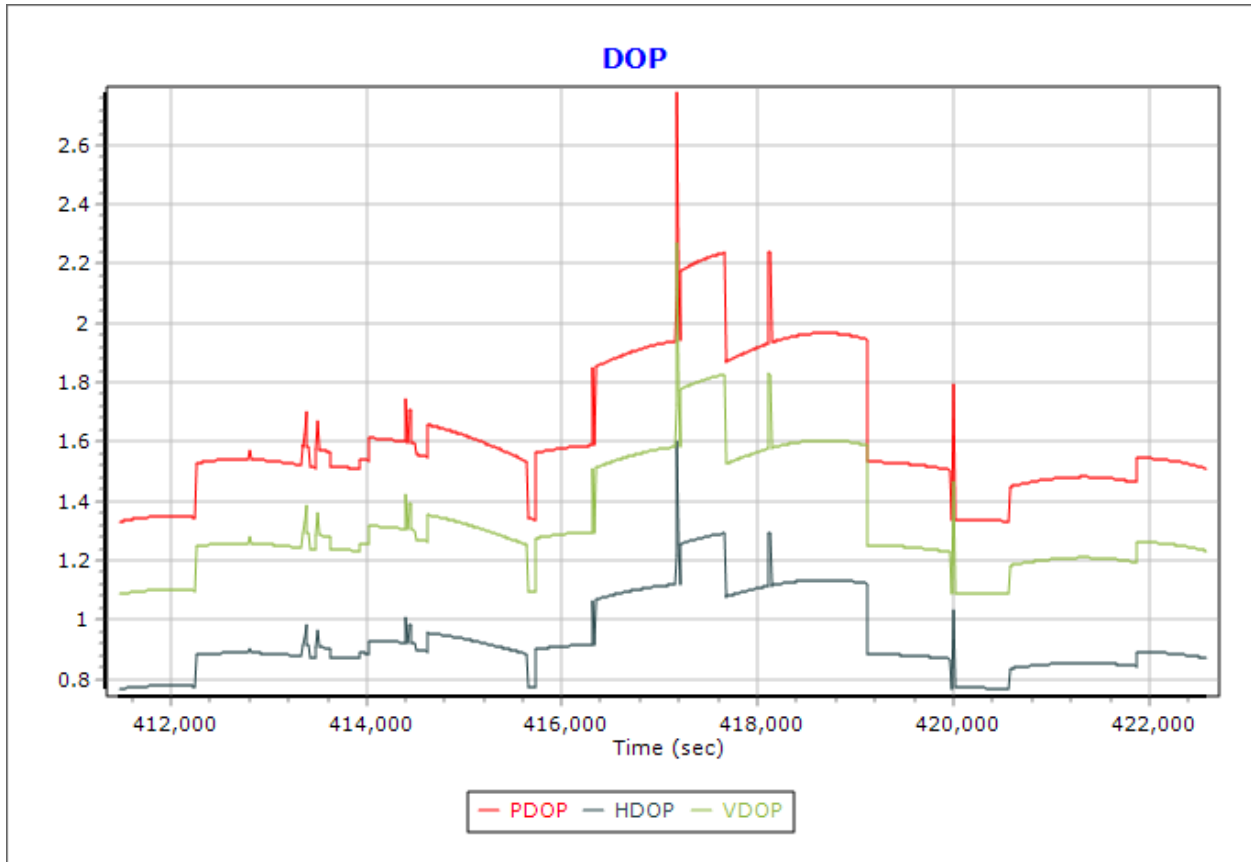


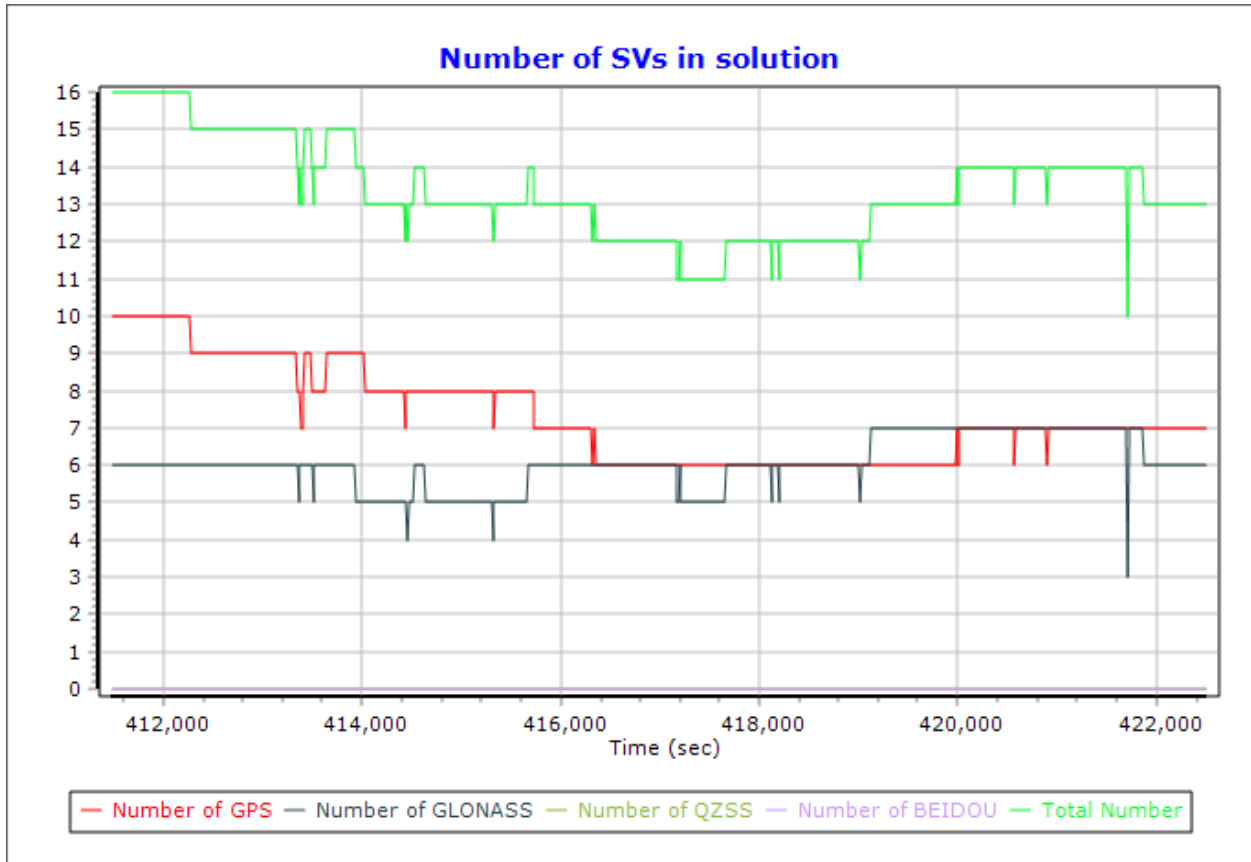












### Processing Summary Information

Program: POSpac MMS

Version: 7.2.5934.15637

Project: \\sa\data\216027\20170323\_WV\_B\05\_INS-GPS\_PROC\01\_POS\20170323\_WV\_B.pospac

Solution Type: IN-Fusion SmartBase

Fixed: 11057 (99.99%)

Float: 69 (0.0%)

No Solution: 1 (0.01%)

Number of Epochs:

Total in RAW file: 11137

No processed position: 80

Fwd/Rev Separation RMS Values (m):

East: 0.016

North: 0.014

Height: 0.040

Fwd/Rev Sep. RMS for 25%-75% weighting (m): 5568 occurrences

East: 0.003

North: 0.006

Height: 0.020

Position Standard Deviation Percentages:

0.00 - 0.10 m: 100.0 %

0.10 - 0.30 m: 0.0 %

0.30 - 1.00 m: 0.0 %

1.00 - 5.00 m: 0.0 %

5.00 m + over: 0.0 %

Percentages of epochs with DD\_DOP over 10.00: 0 %

DOP over Tol: 1.63 %

Baseline Distances (km):



Maximum: 59.69

Minimum: 1.99

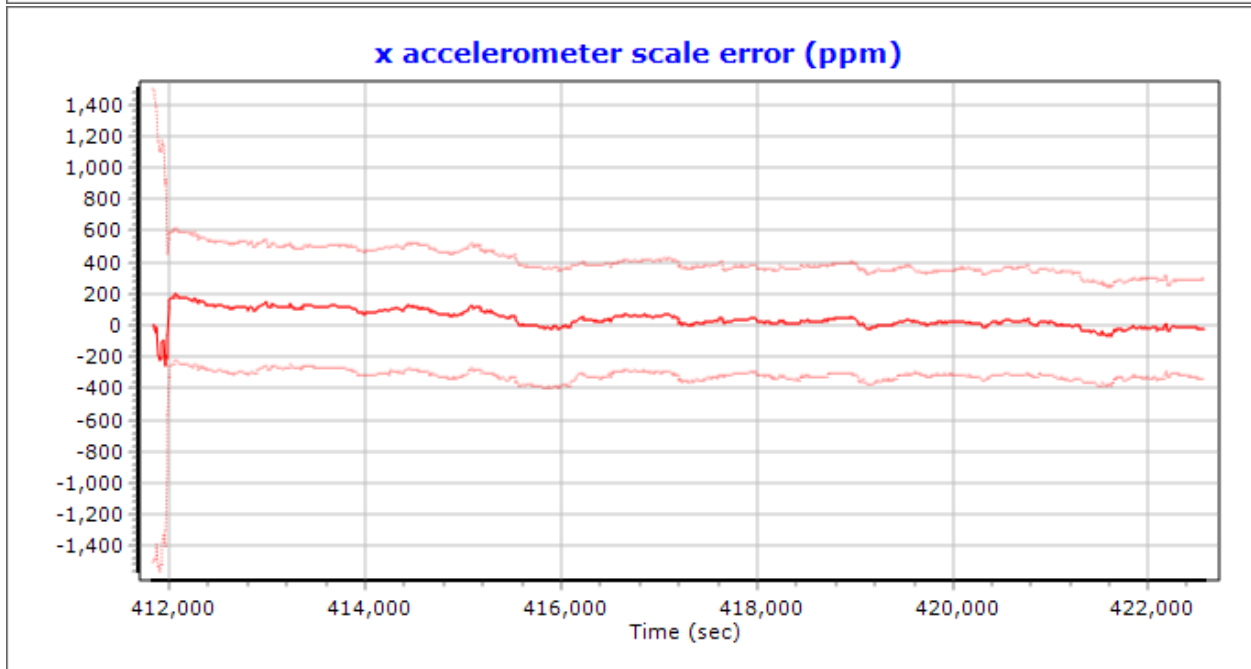
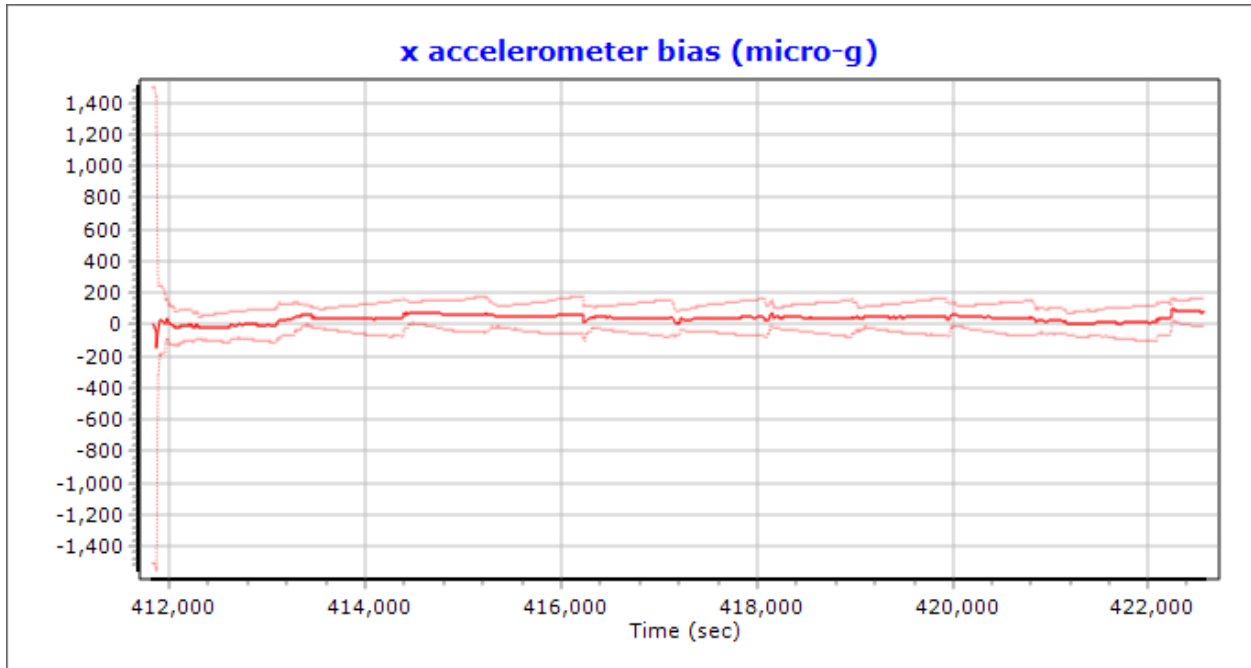
Average: 27.06

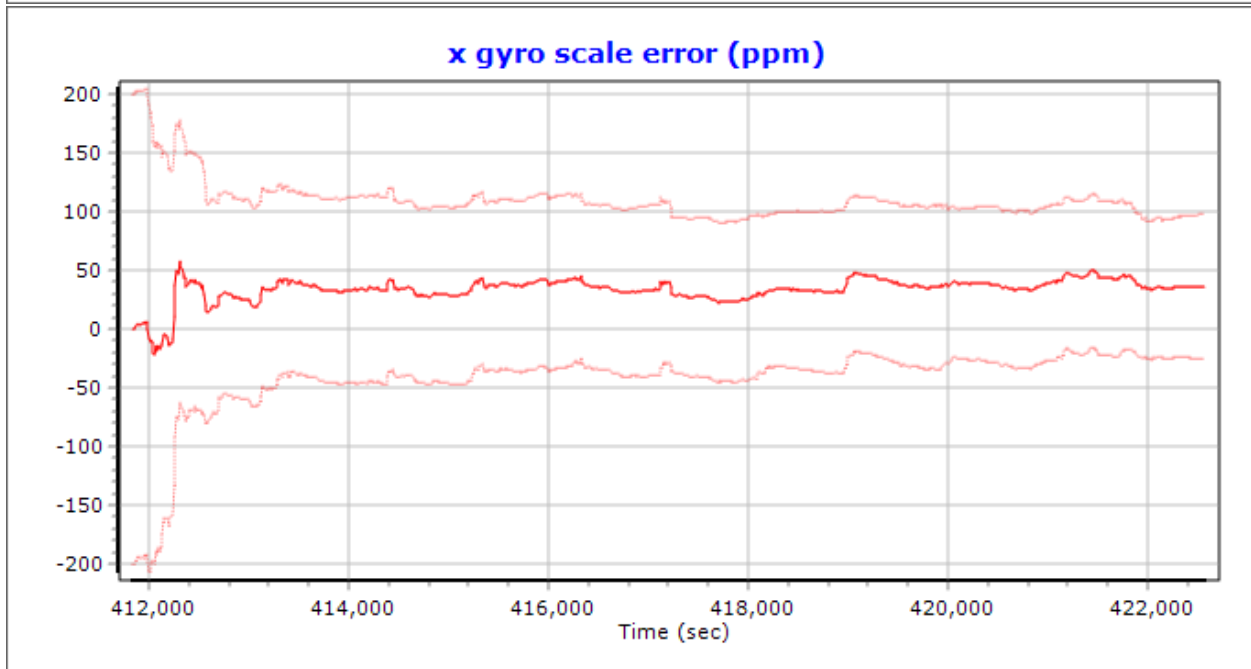
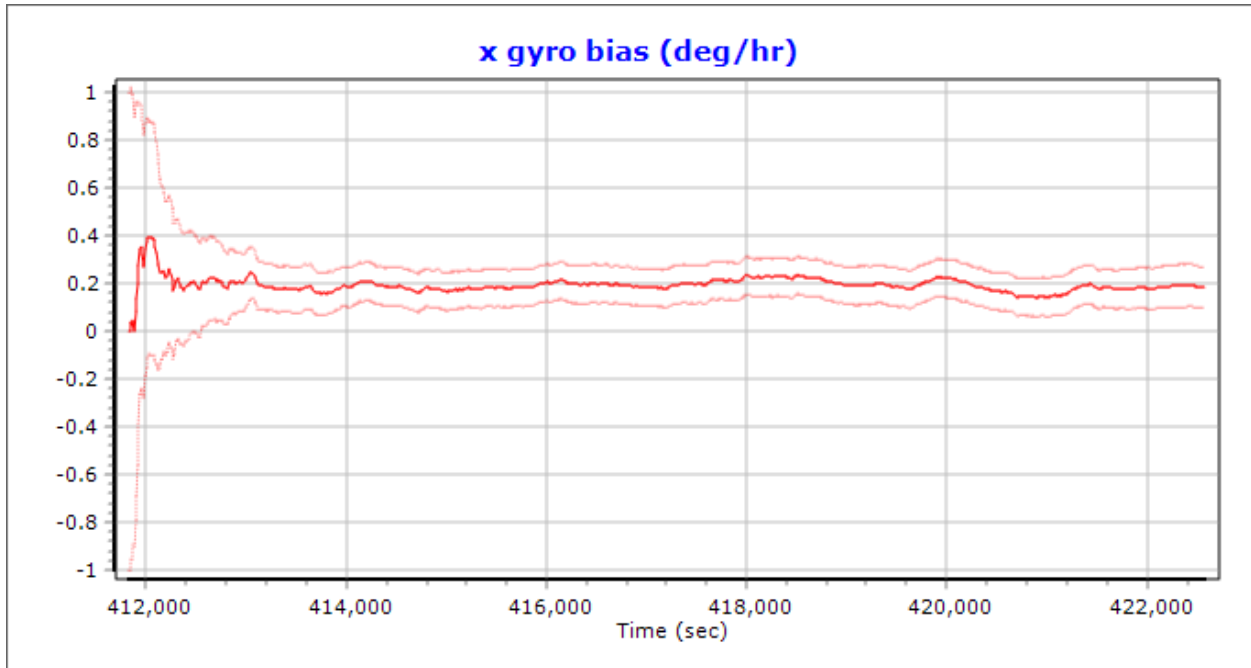
First Epoch: 58.52

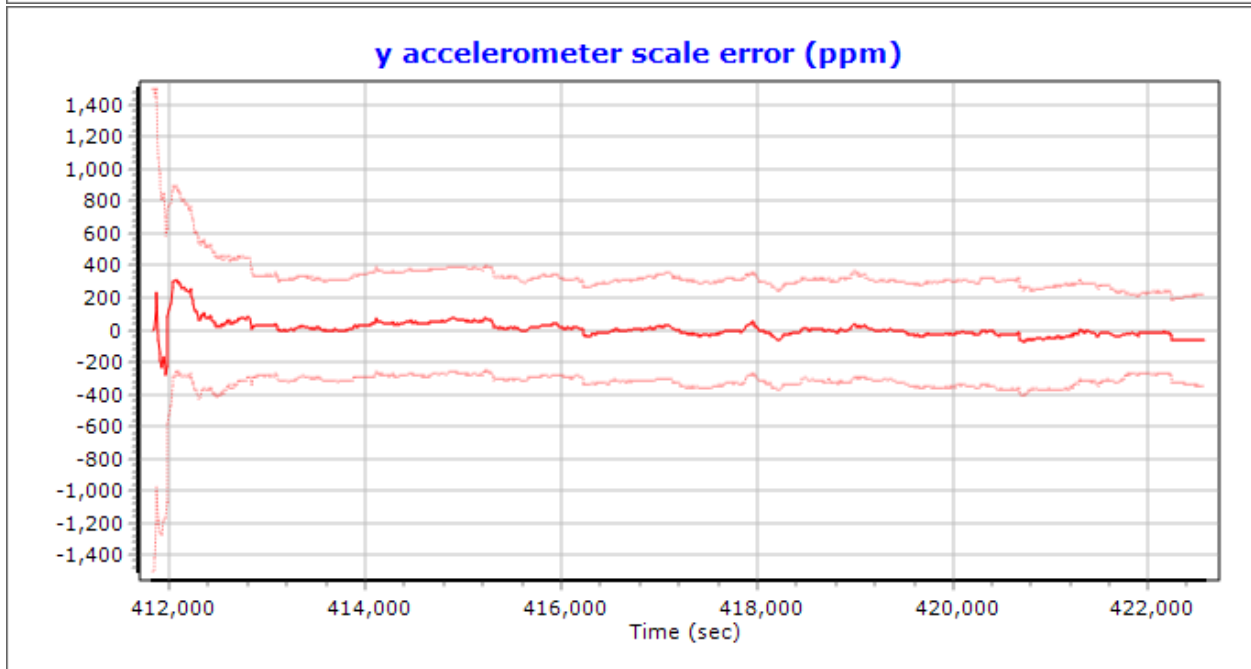
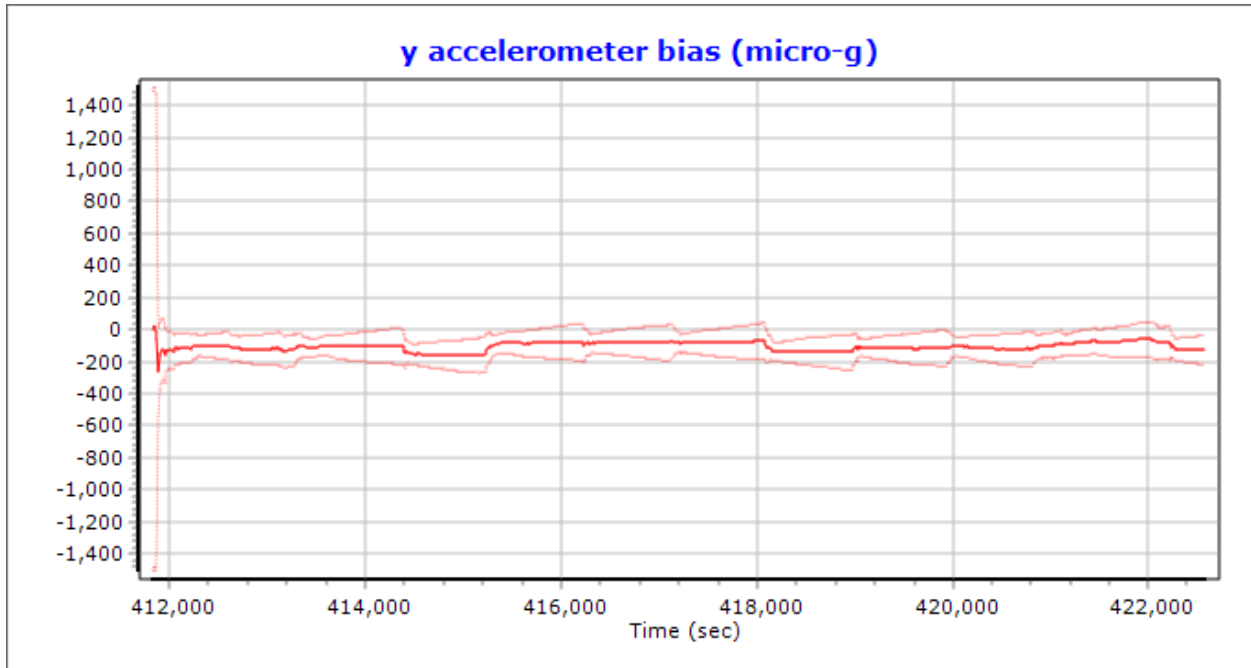
Last Epoch: 58.51

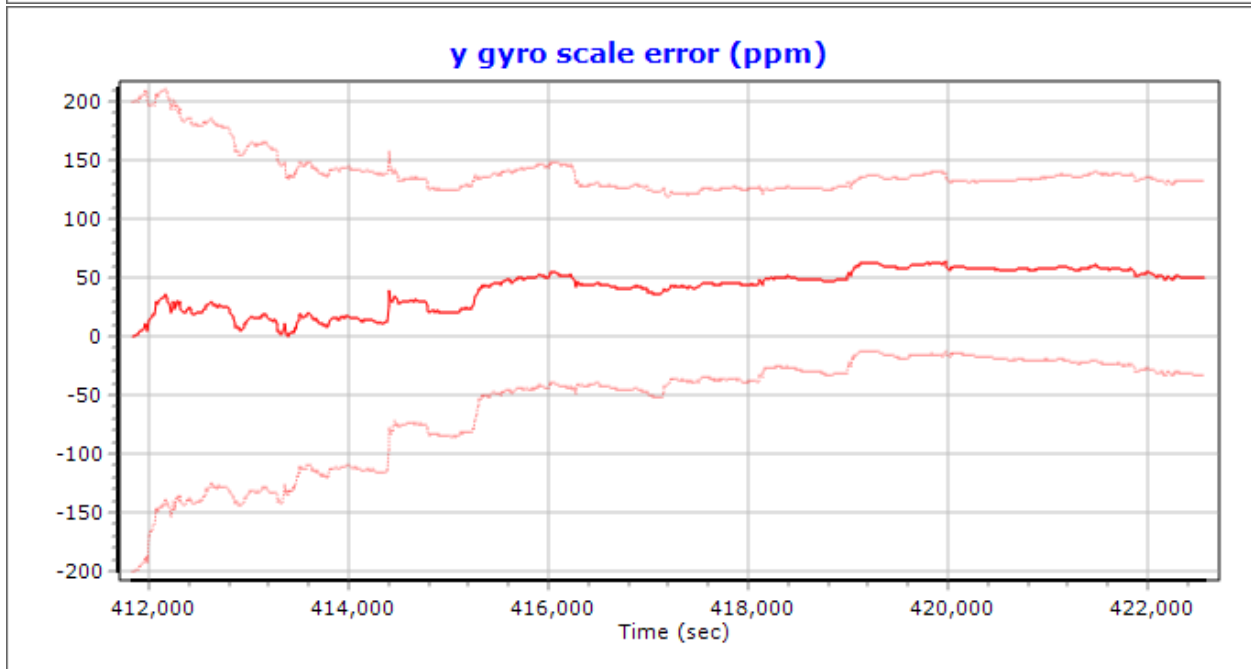
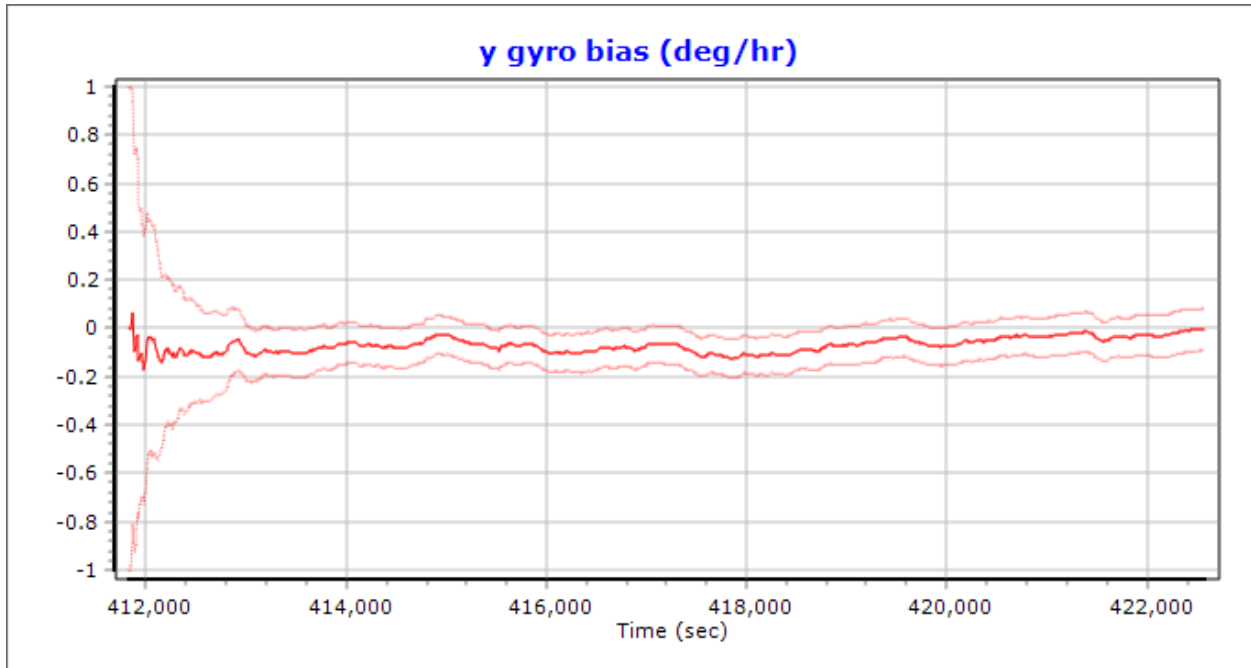
### CORS Base Stations

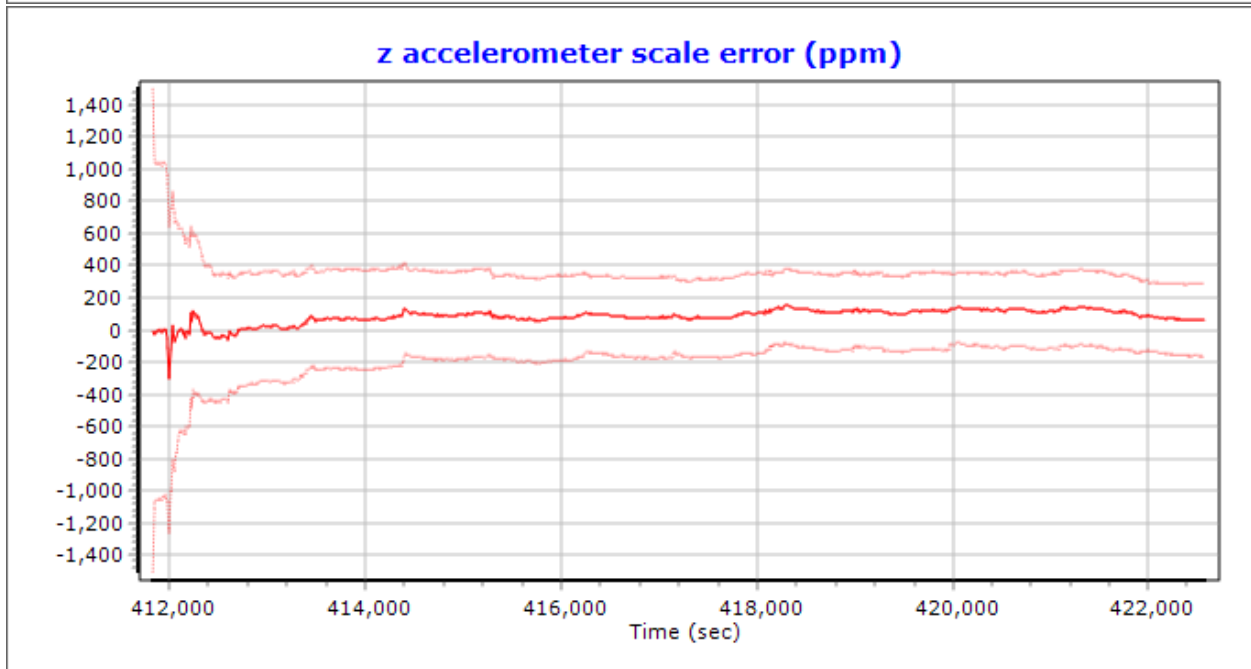
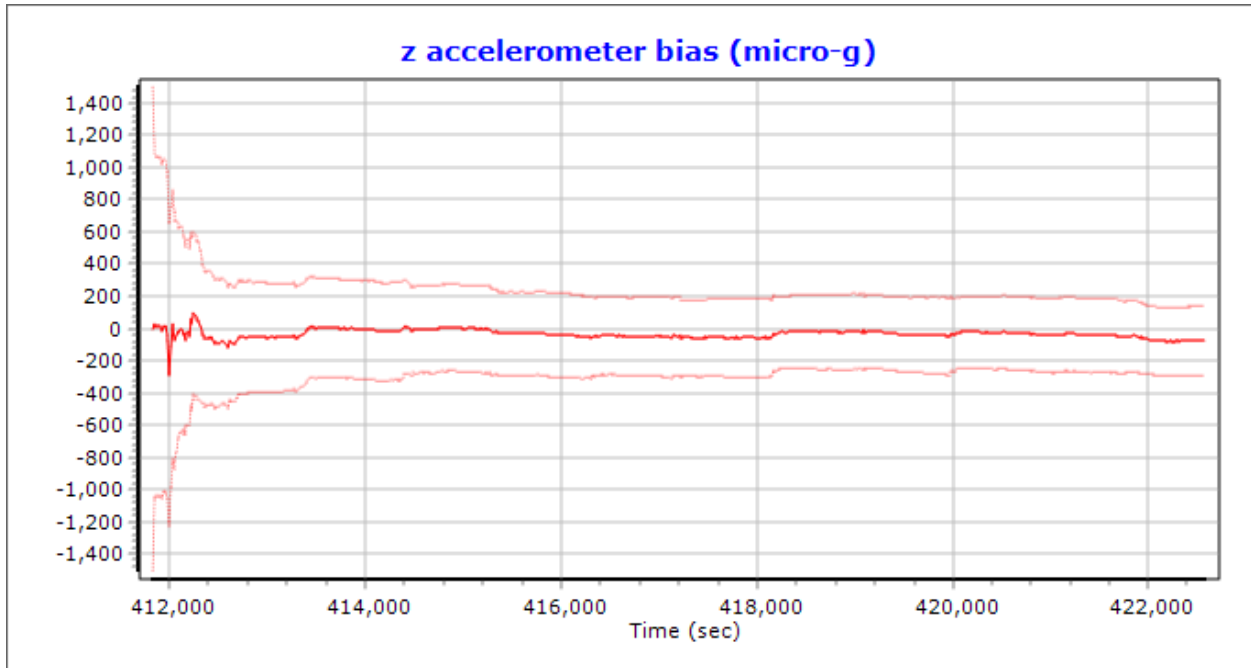
Station	Original (m)			Adjusted (m)		
	Latitude	Longitude	Altitude	Latitude	Longitude	Altitude
WVNR	N38°53'44.53459"	W79°51'30.29511"	581.507	N38°53'44.53442"	W79°51'30.29468"	581.496
ZDC1	N39°06'05.74453"	W77°32'33.88955"	79.595	N39°06'05.74455"	W77°32'33.88948"	79.609
WVMF	N39°04'32.37375"	W78°55'57.02182"	312.272	N39°04'32.37375"	W78°55'57.02182"	312.272
WVGB	N38°25'48.45400"	W79°49'01.31939"	811.181	N38°25'48.45372"	W79°49'01.31963"	811.179
WVCV	N39°00'55.10521"	W79°27'25.03369"	967.96	N39°00'55.10450"	W79°27'25.03287"	967.961
WVBU	N39°20'16.85131"	W78°54'48.61086"	198.787	N39°20'16.85125"	W78°54'48.61114"	198.785
LOYY	N38°53'18.57664"	W78°29'56.96652"	220.904	N38°53'18.57675"	W78°29'56.96665"	220.911
LOYJ	N38°28'20.92225"	W78°00'36.16909"	103.853	N38°28'20.92237"	W78°00'36.16885"	103.859
LOYC	N39°07'12.57576"	W78°12'02.63187"	201.807	N39°07'12.57552"	W78°12'02.63200"	201.841
LOYA	N38°25'33.92921"	W78°53'21.79771"	363.919	N38°25'33.92917"	W78°53'21.79798"	363.964
ALLG	N39°39'13.91862"	W78°43'50.52709"	174.48	N39°39'13.91863"	W78°43'50.52727"	174.496

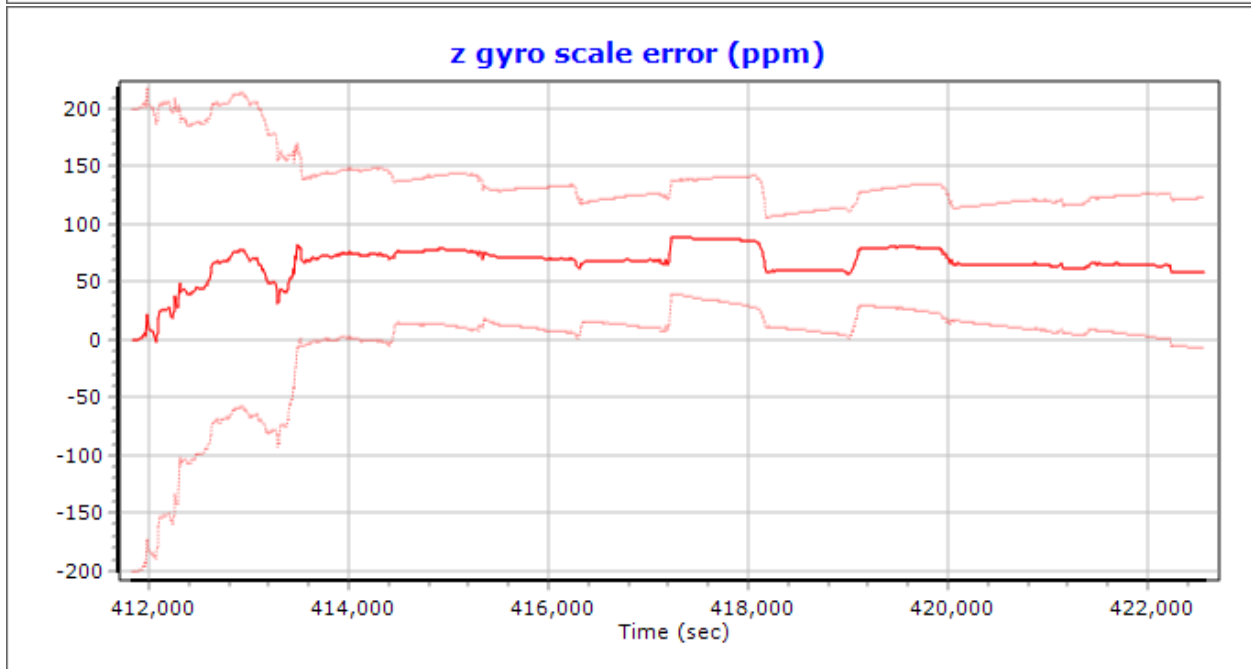
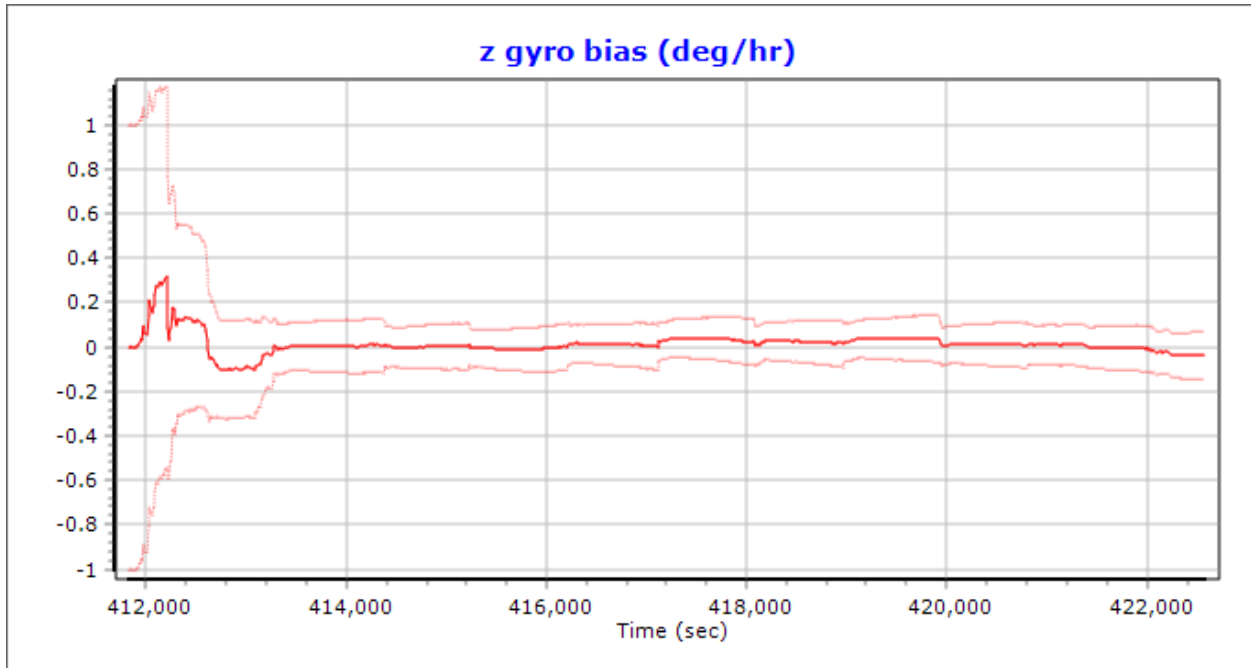


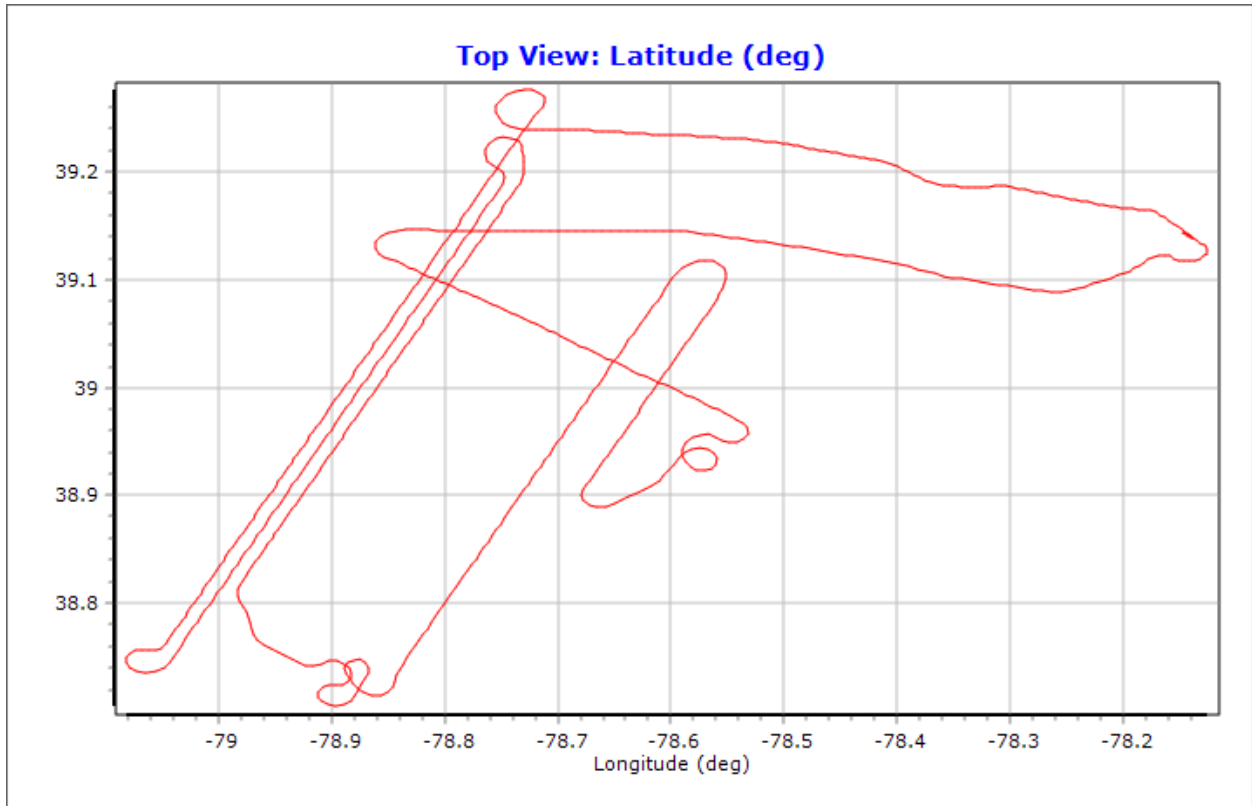




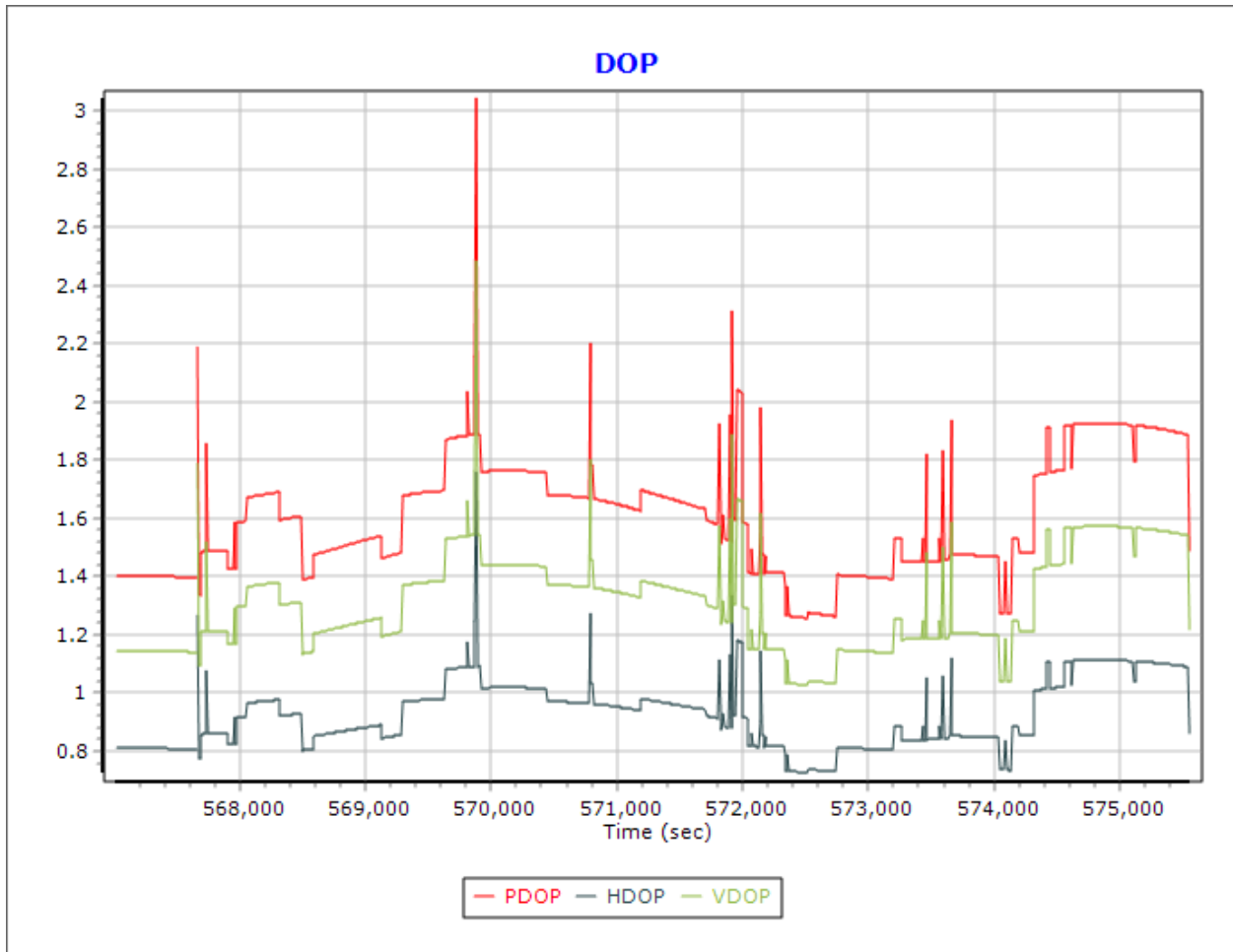


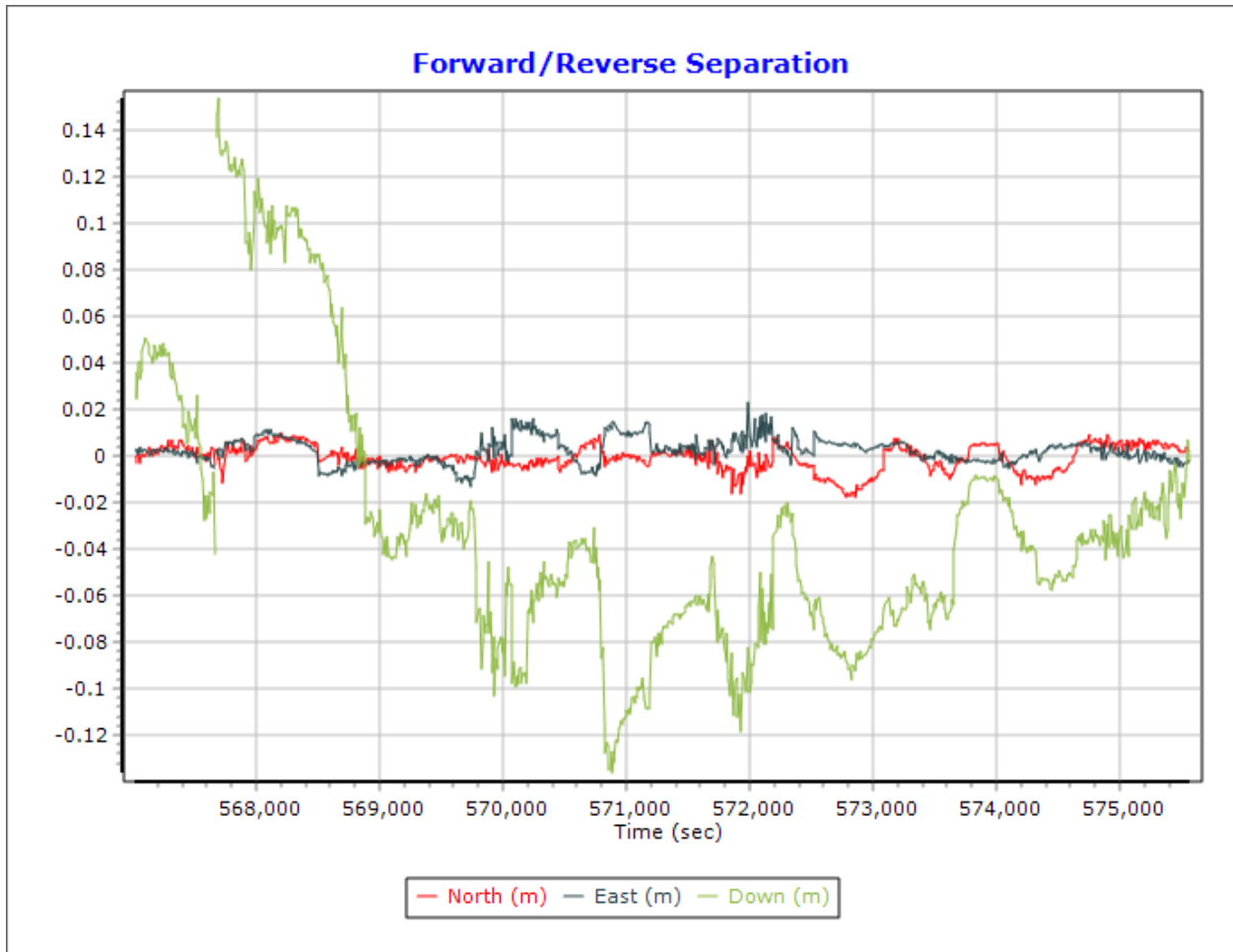


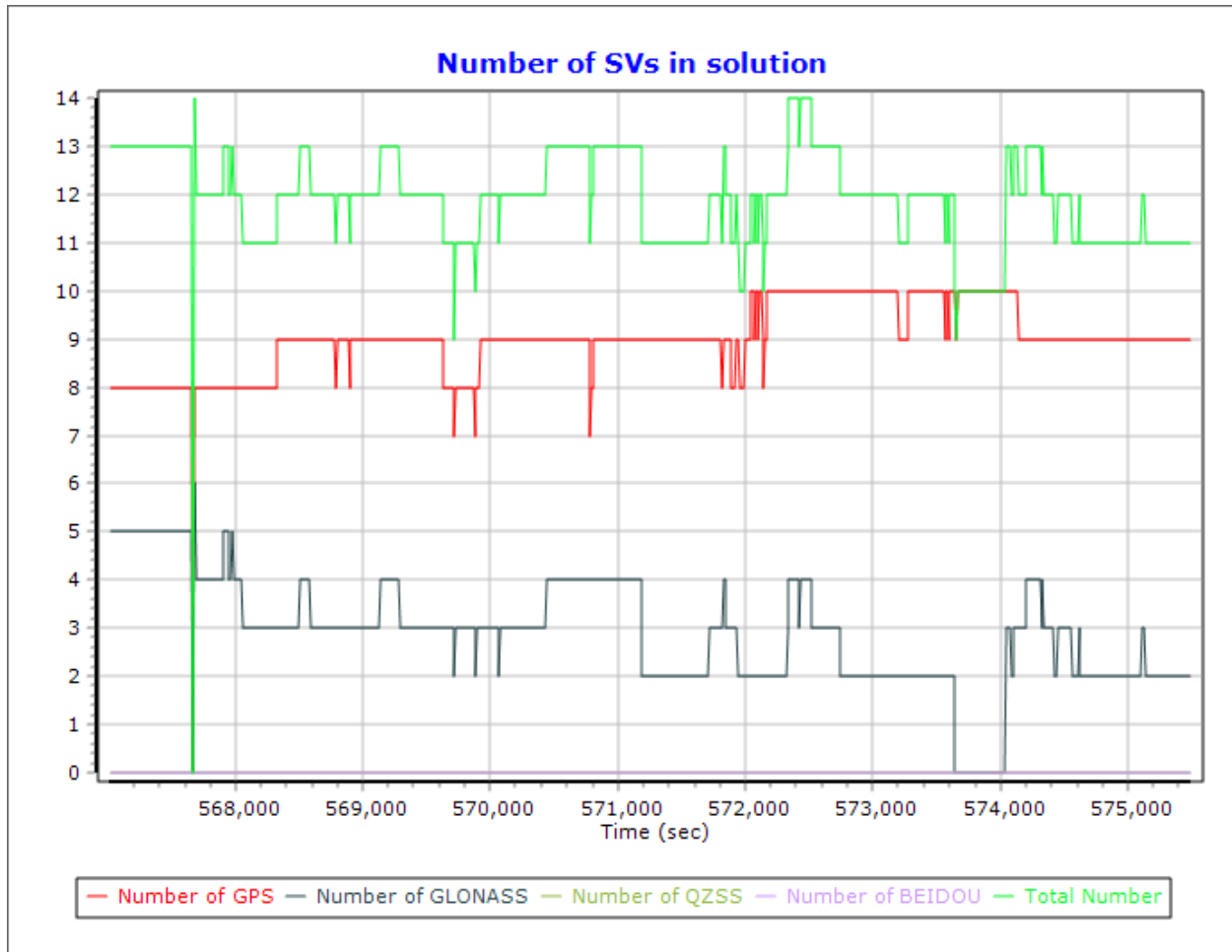












### Processing Summary Information

Program: POSpac MMS

Version: 7.2.5934.15637

Project: \\sa\data\216027\20170325\_WV\_A\05\_INS-GPS\_PROC\01\_POS\20170325\_WV\_A.pospac

Solution Type: IN-Fusion SmartBase

Fixed: 8497 (99.99%)

Float: 0 (0.0%)

No Solution: 1 (0.01%)

Number of Epochs:

Total in RAW file: 8567

No processed position: 70

Fwd/Rev Separation RMS Values (m):

East: 0.005

North: 0.006

Height: 0.065

Fwd/Rev Sep. RMS for 25%-75% weighting (m): 4283 occurrences

East: 0.006

North: 0.007

Height: 0.071

Position Standard Deviation Percentages:

0.00 - 0.10 m: 100.0 %

0.10 - 0.30 m: 0.0 %

0.30 - 1.00 m: 0.0 %

1.00 - 5.00 m: 0.0 %

5.00 m + over: 0.0 %

Percentages of epochs with DD\_DOP over 10.00: 0 %

DOP over Tol: 1.60 %

Baseline Distances (km):

Maximum: 50.52

Minimum: 0.38

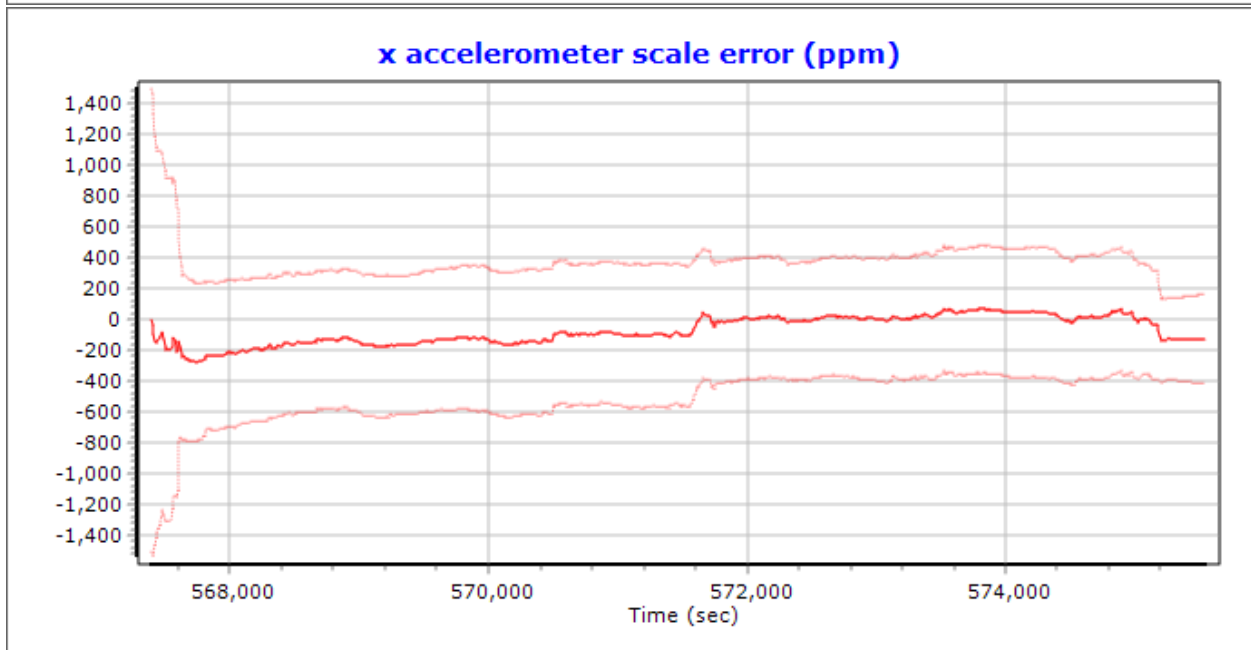
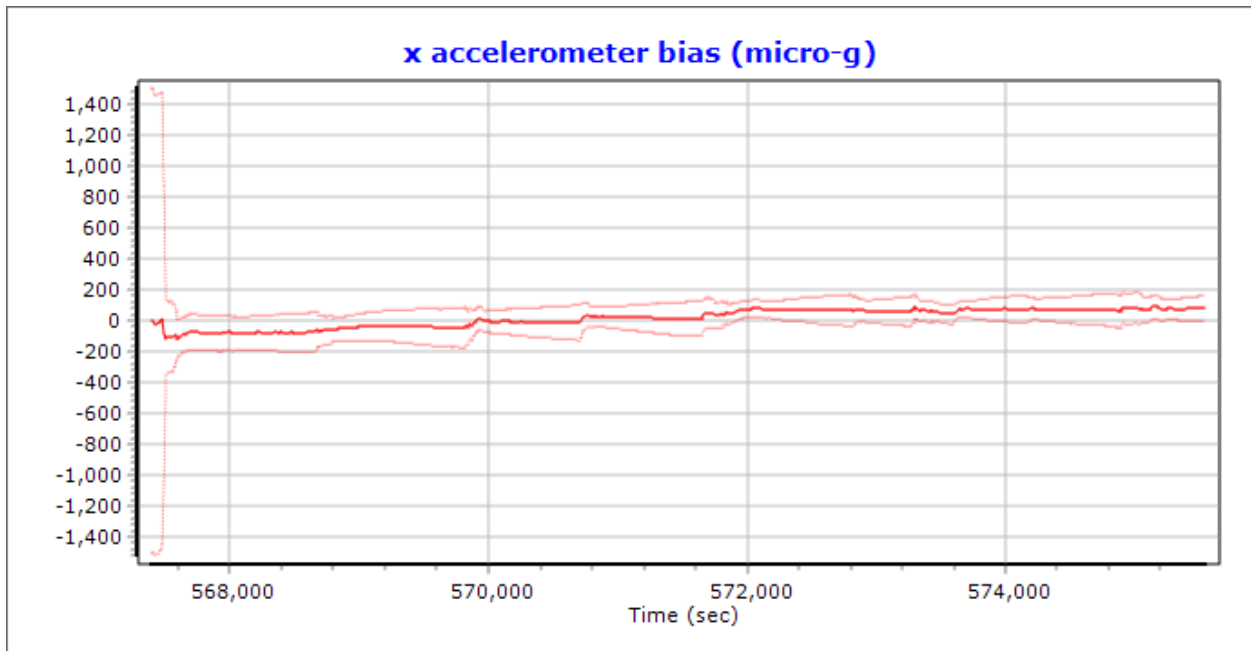
Average: 26.05

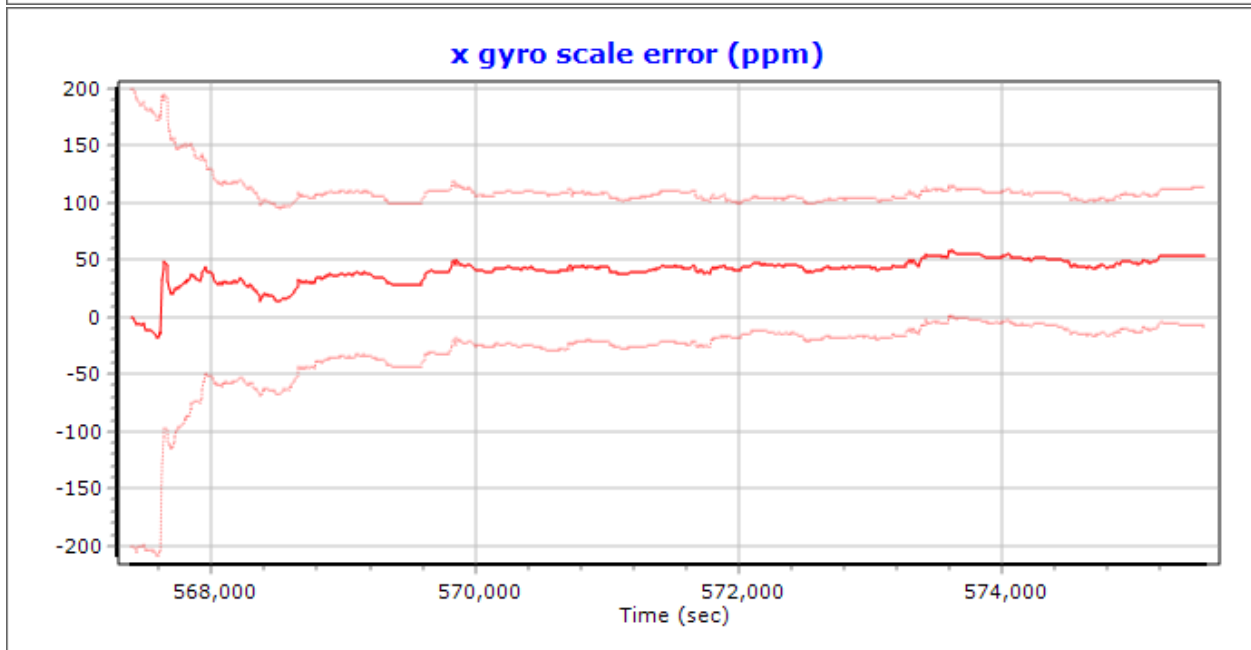
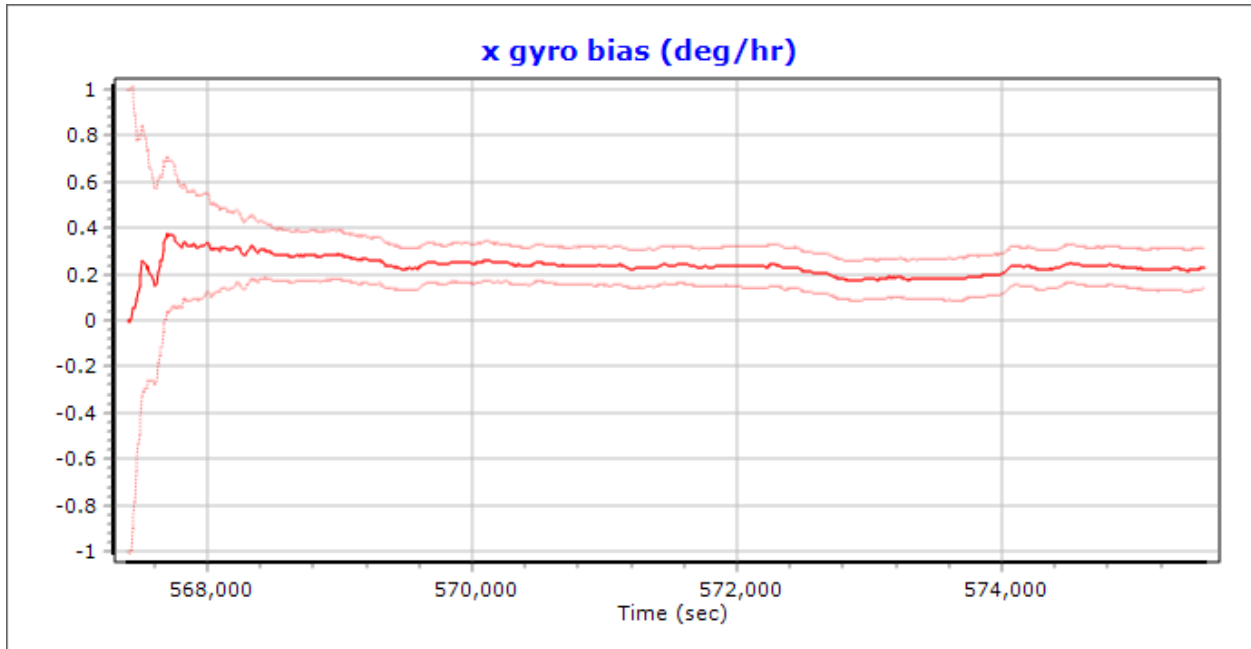
First Epoch: 44.08

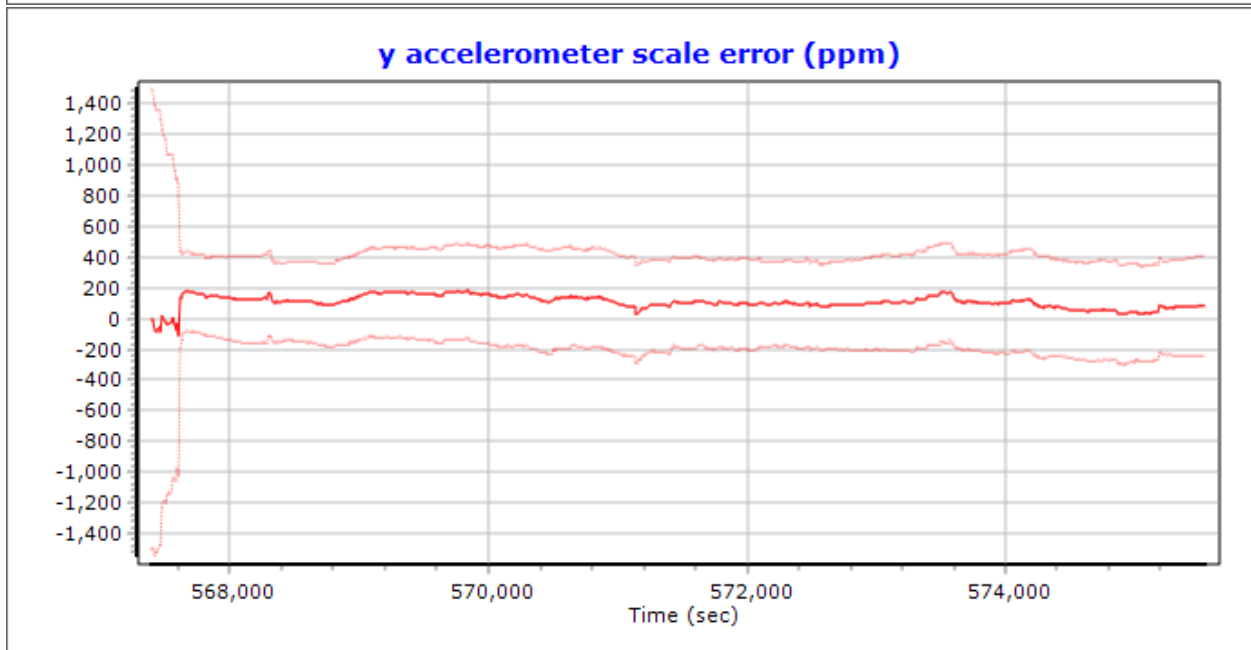
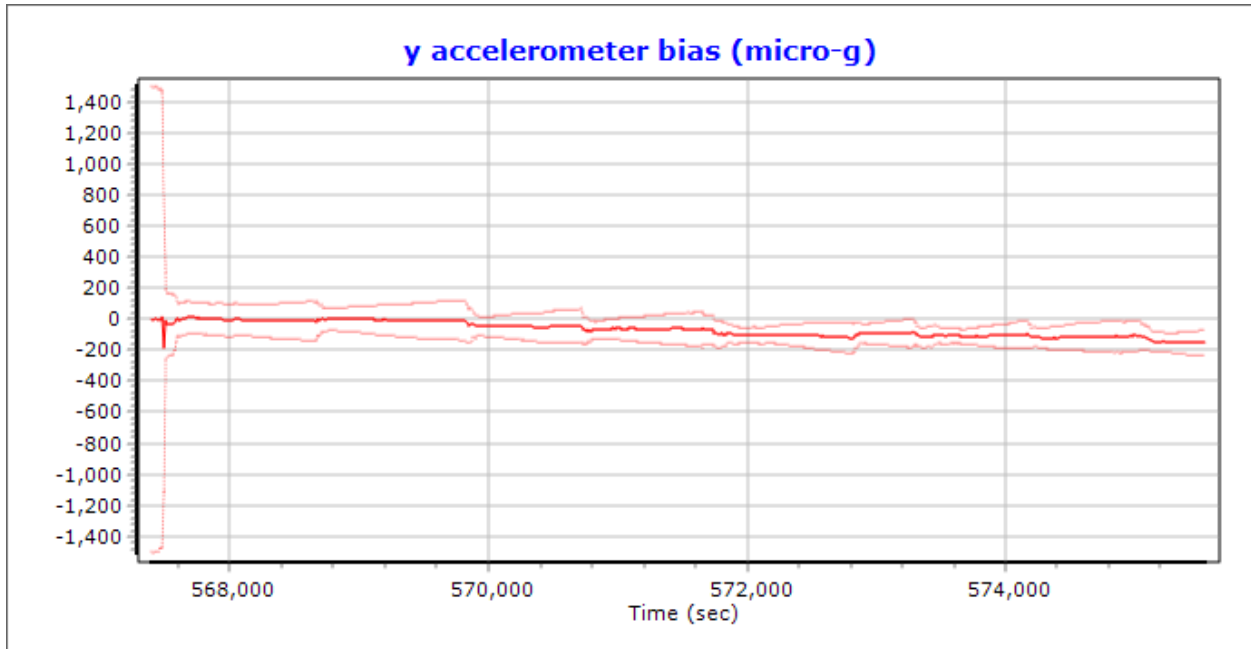
Last Epoch: 44.08

#### CORS Base Stations

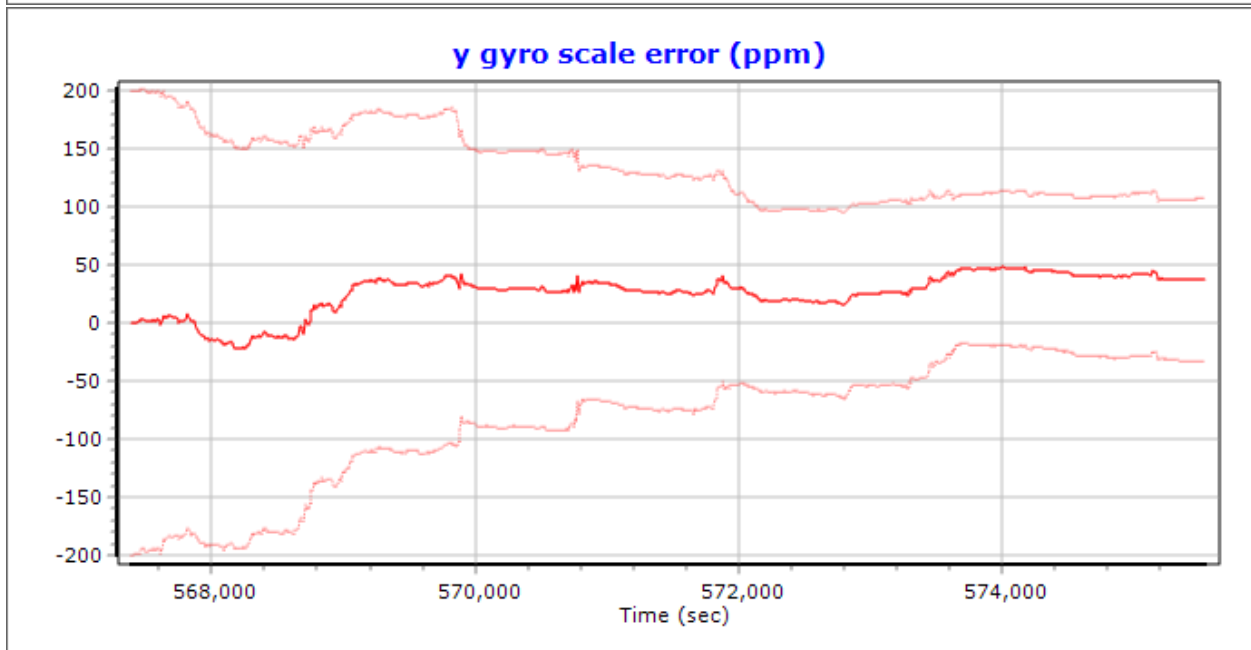
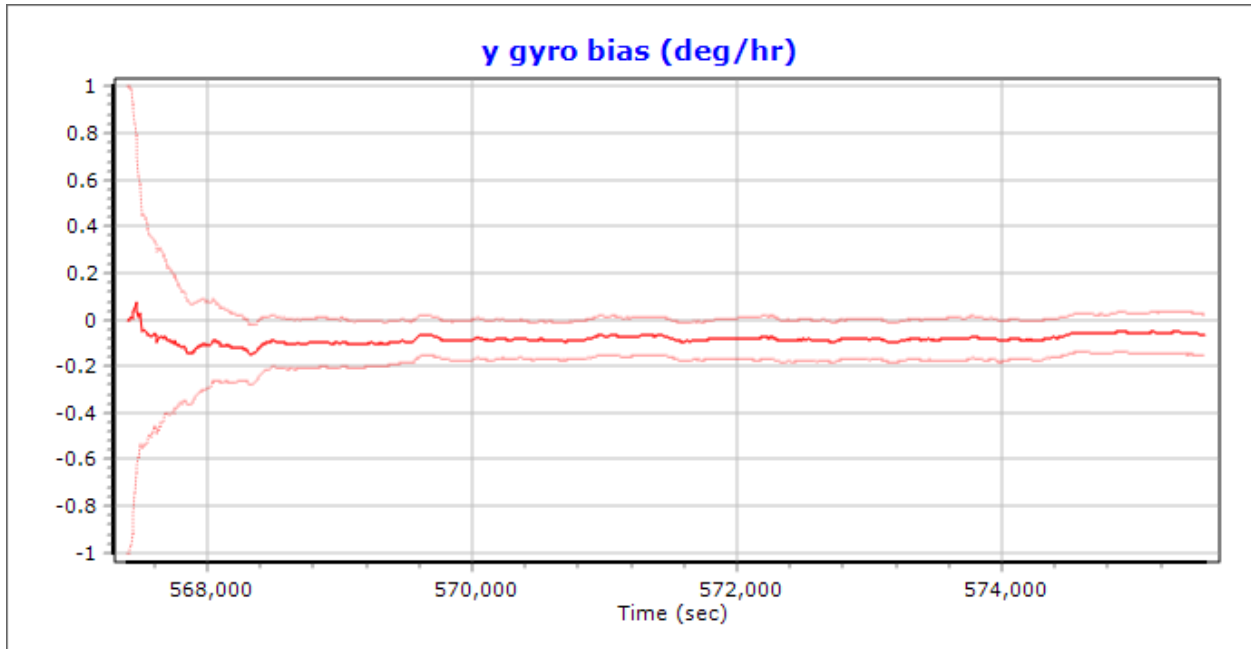
Station	Original (m)			Adjusted (m)		
	Latitude	Longitude	Altitude	Latitude	Longitude	Altitude
WVBU	N39°20'16.85148"	W78°54'48.61144"	198.793	N39°20'16.85114"	W78°54'48.61083"	198.788
LOYJ	N38°28'20.92225"	W78°00'36.16909"	103.853	N38°28'20.92220"	W78°00'36.16871"	103.852
LOYA	N38°25'33.92921"	W78°53'21.79771"	363.919	N38°25'33.92905"	W78°53'21.79780"	363.96
WVNR	N38°53'44.53446"	W79°51'30.29457"	581.5	N38°53'44.53431"	W79°51'30.29456"	581.489
WVCV	N39°00'55.10521"	W79°27'25.03370"	967.96	N39°00'55.10441"	W79°27'25.03283"	967.957
LOYY	N38°53'18.57664"	W78°29'56.96652"	220.904	N38°53'18.57664"	W78°29'56.96652"	220.904
LOYI	N38°01'59.45428"	W78°30'42.43163"	154.965	N38°01'59.45423"	W78°30'42.43147"	154.955
ALLG	N39°39'13.91862"	W78°43'50.52710"	174.48	N39°39'13.91854"	W78°43'50.52710"	174.488

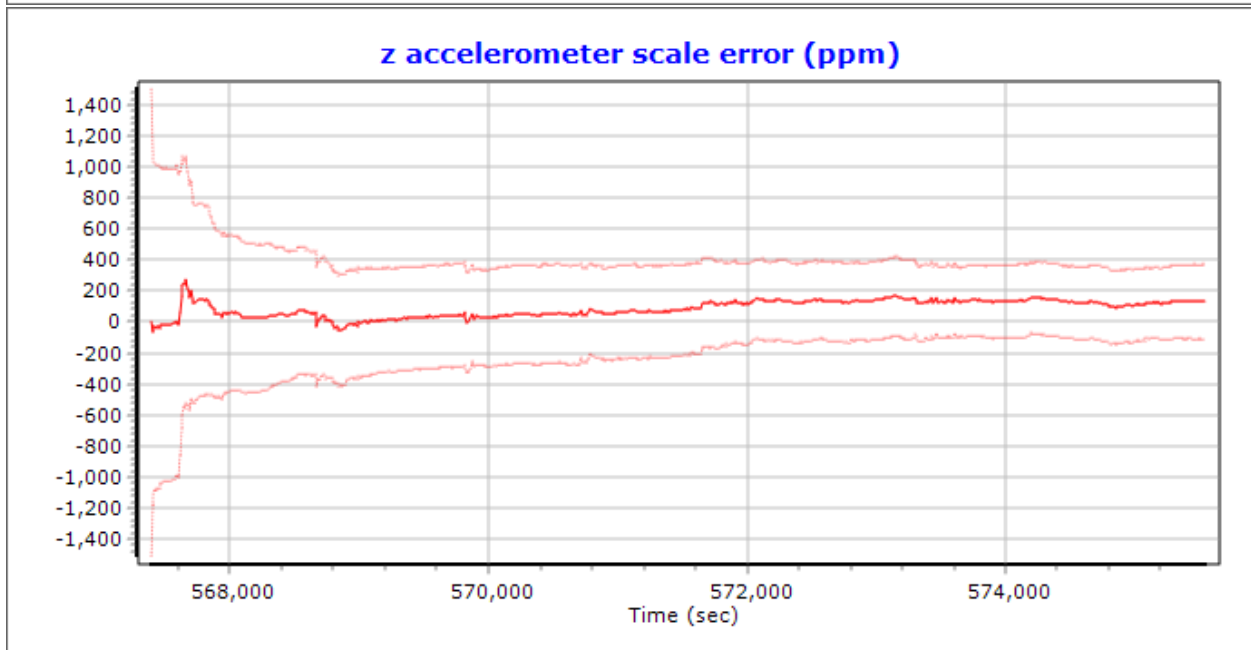
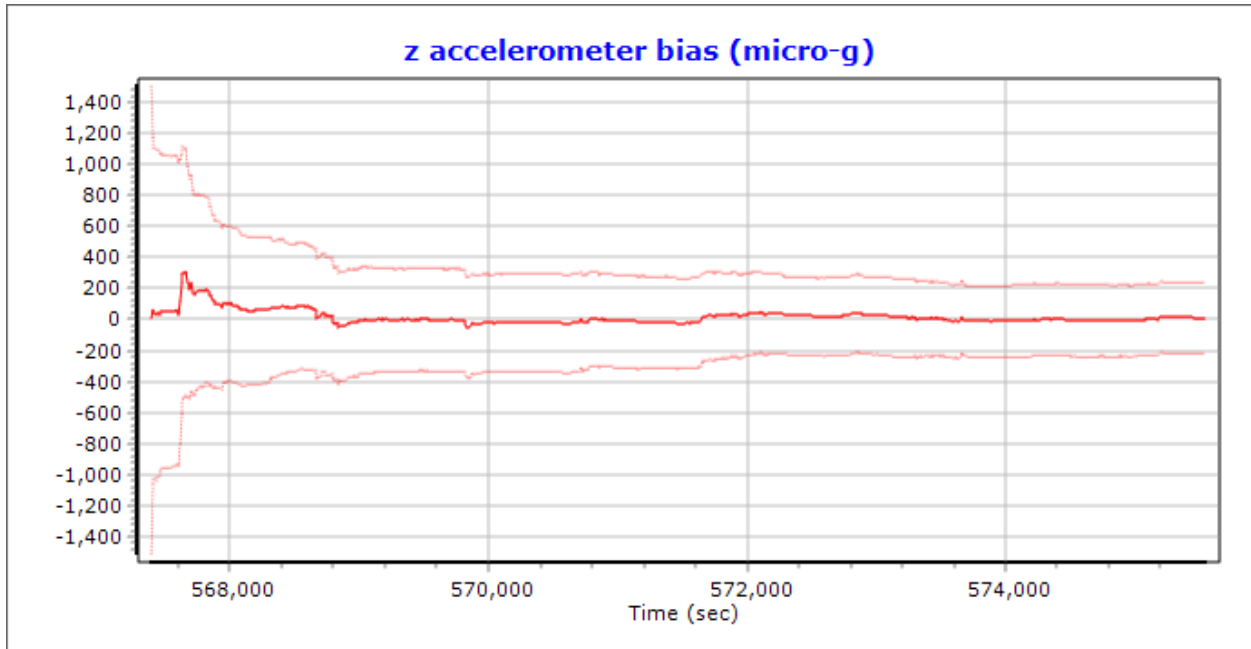


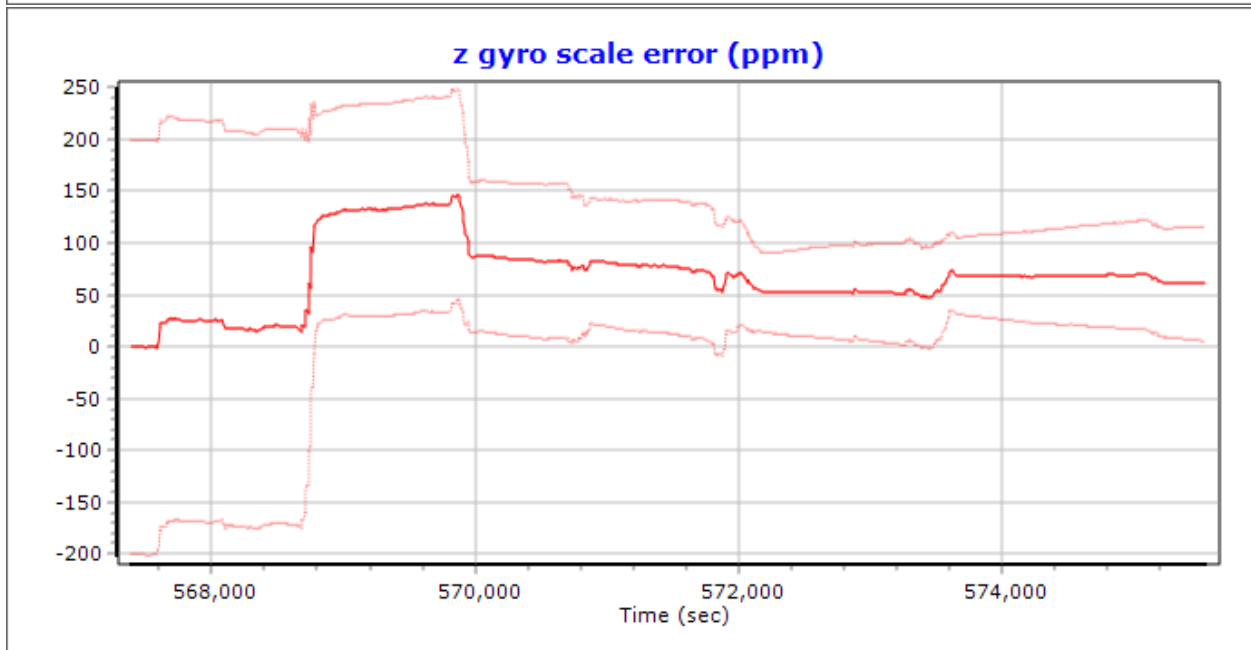
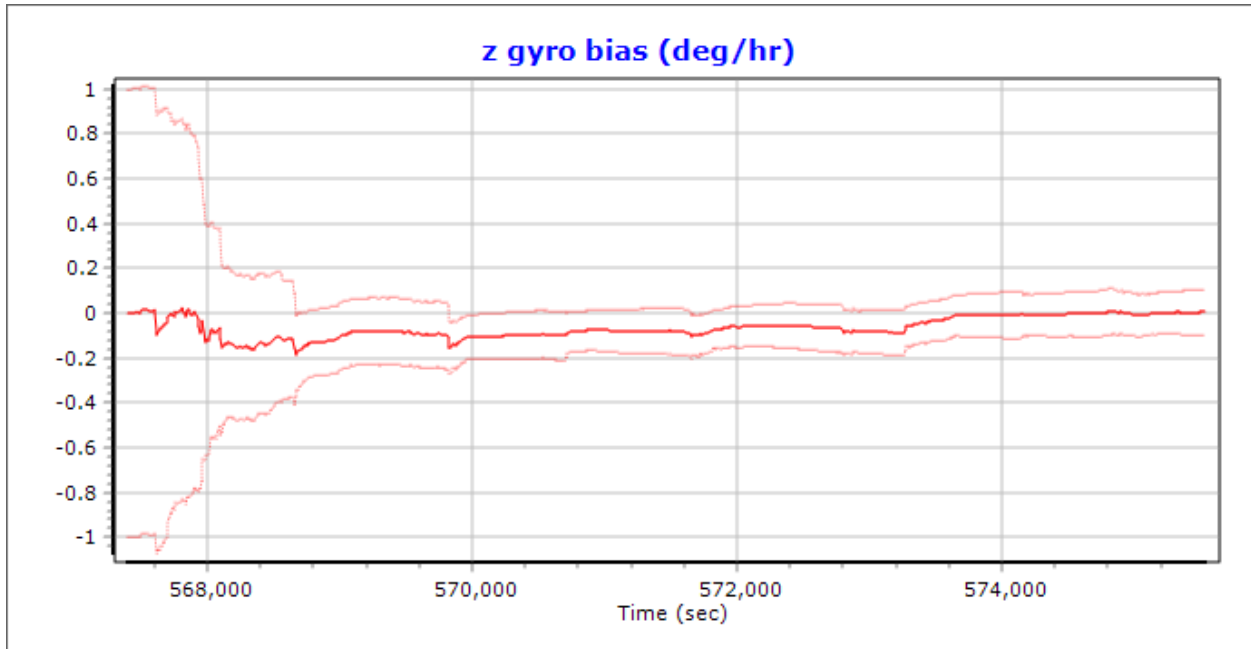


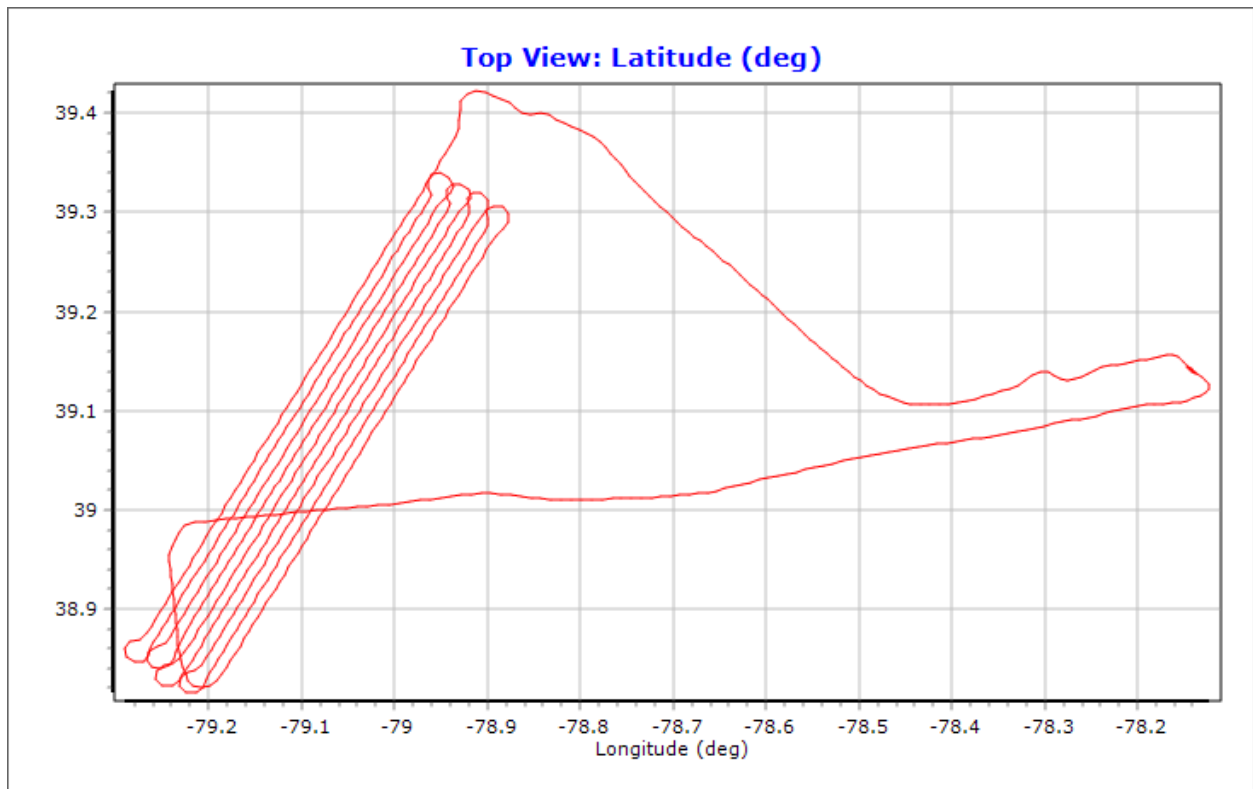


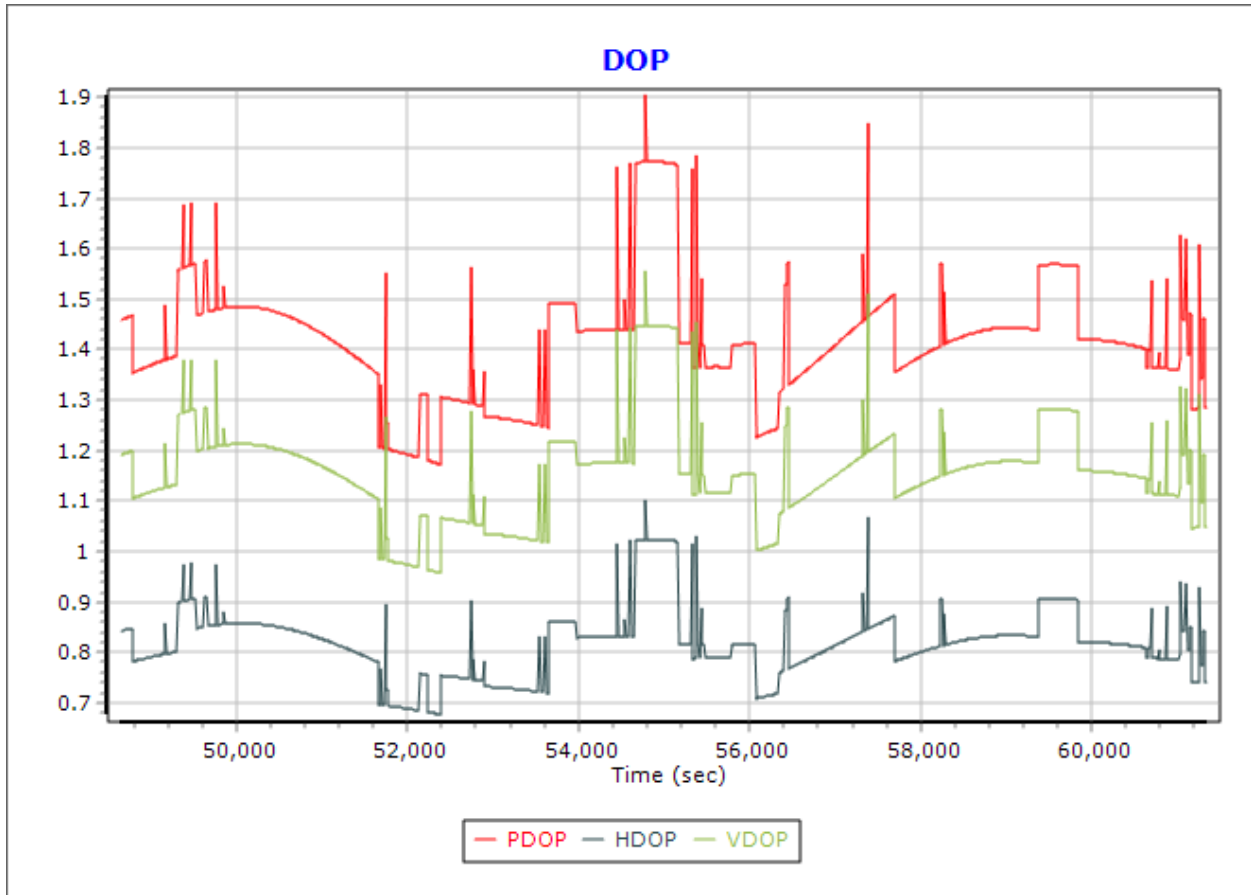


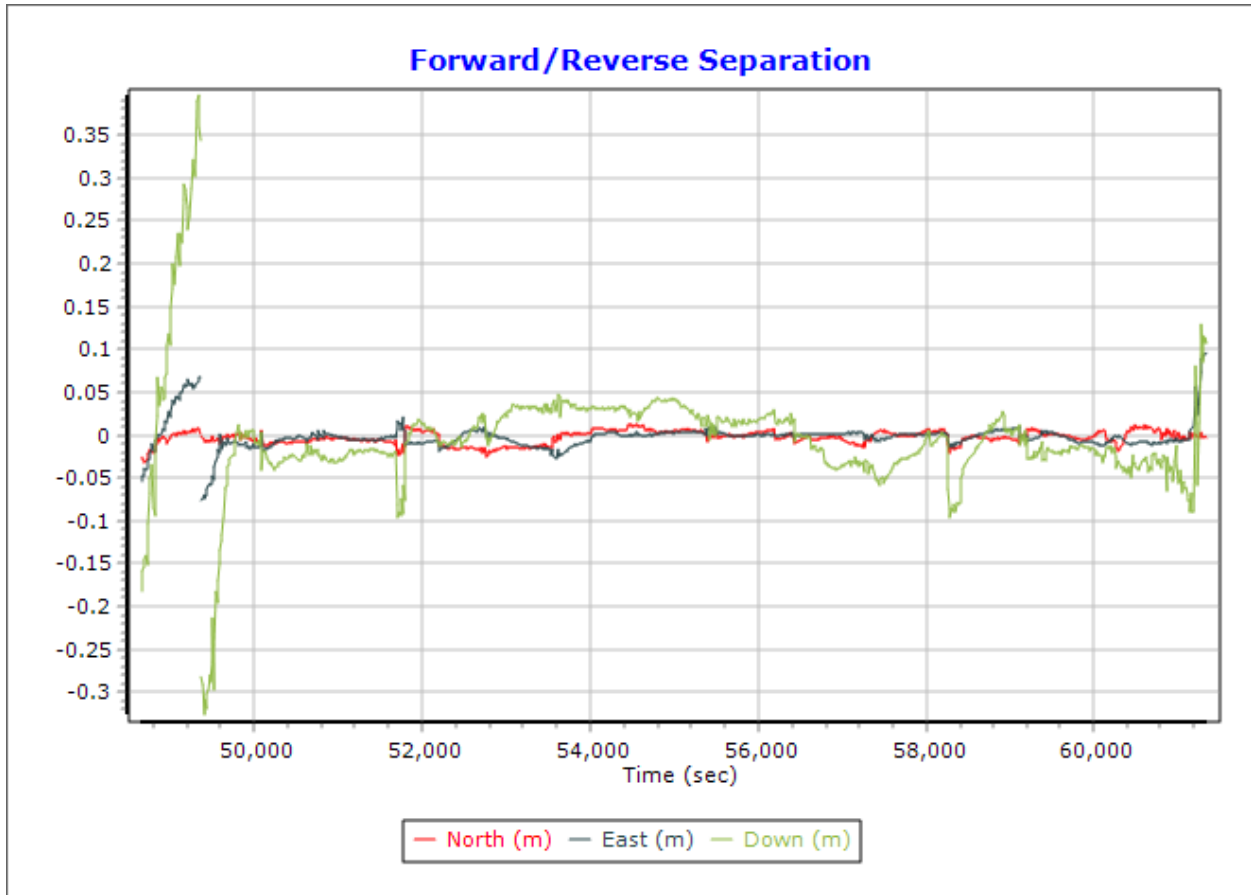


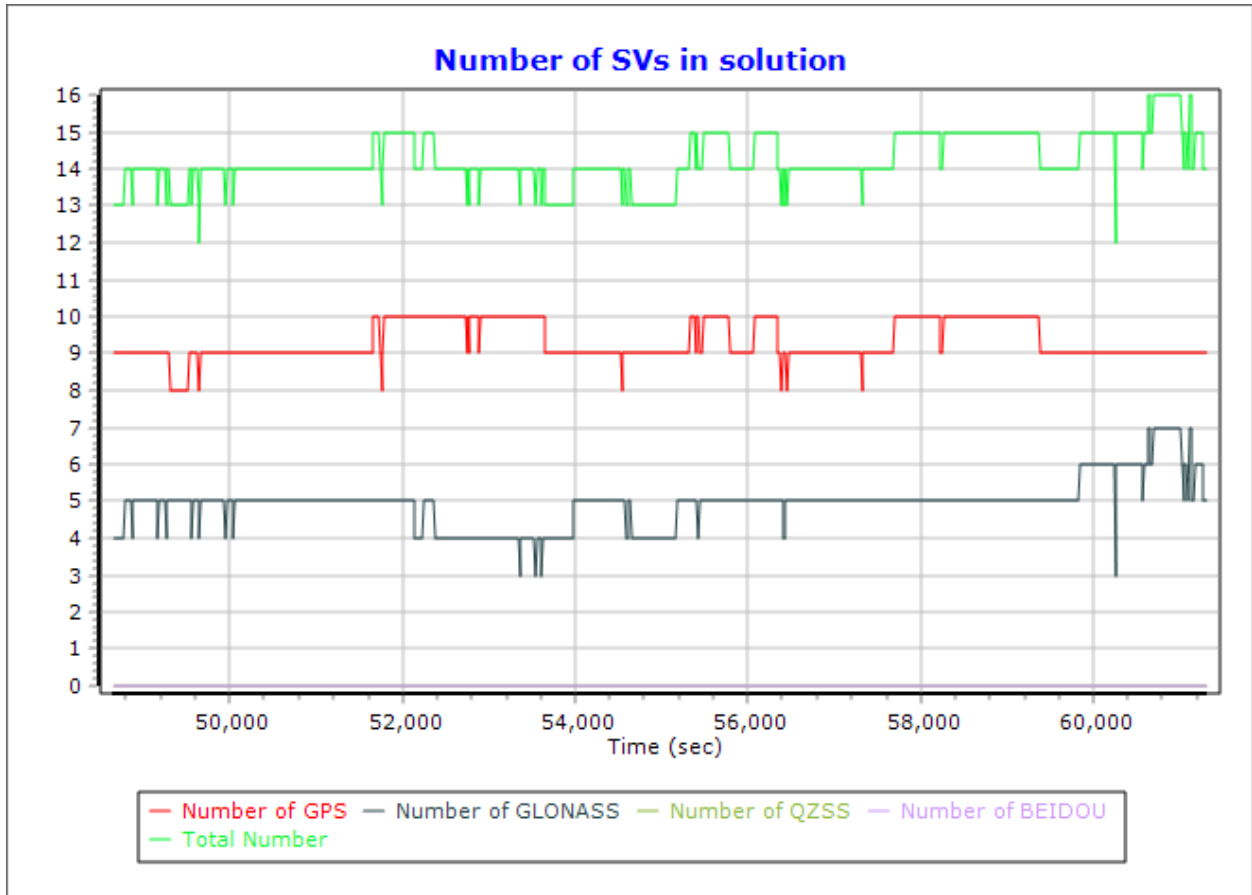












### Processing Summary Information

Program: POSpac MMS

Version: 7.2.5934.15637

Project: \\sa\data\216027\20170402\_WV\_A\05\_INS-  
GPS\_PROC\01\_POS\20170402\_WV\_A\_REAL.pospac

Solution Type: IN-Fusion SmartBase

Fixed: 12695 (99.99%)

Float: 0 (0.0%)

No Solution: 1 (0.01%)

Number of Epochs:

Total in RAW file: 12721

No processed position: 26

Fwd/Rev Separation RMS Values (m):

East: 0.016

North: 0.008

Height: 0.067

Fwd/Rev Sep. RMS for 25%-75% weighting (m): 6359 occurrences

East: 0.007

North: 0.009

Height: 0.027

Position Standard Deviation Percentages:

0.00 - 0.10 m: 99.53 %

0.10 - 0.30 m: 0.47 %

0.30 - 1.00 m: 0.0 %

1.00 - 5.00 m: 0.0 %

5.00 m + over: 0.0 %

Percentages of epochs with DD\_DOP over 10.00: 0 %

DOP over Tol: 1.42 %



Baseline Distances (km):

Maximum: 66.18

Minimum: 8.62

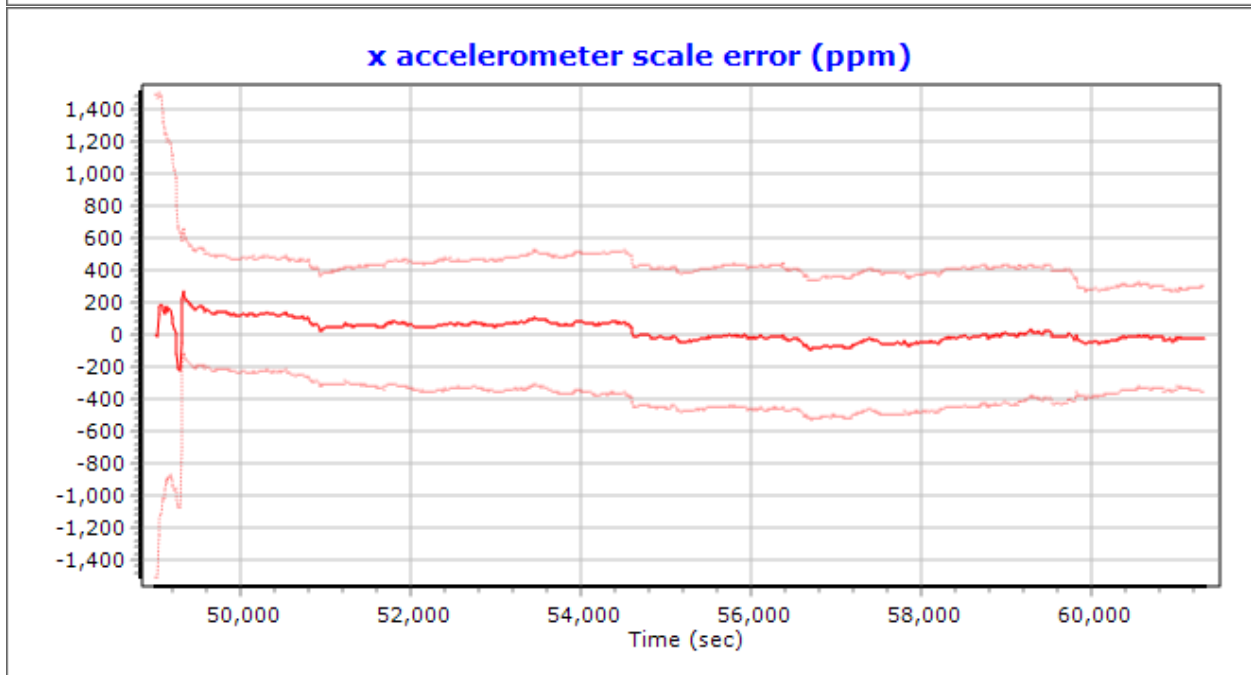
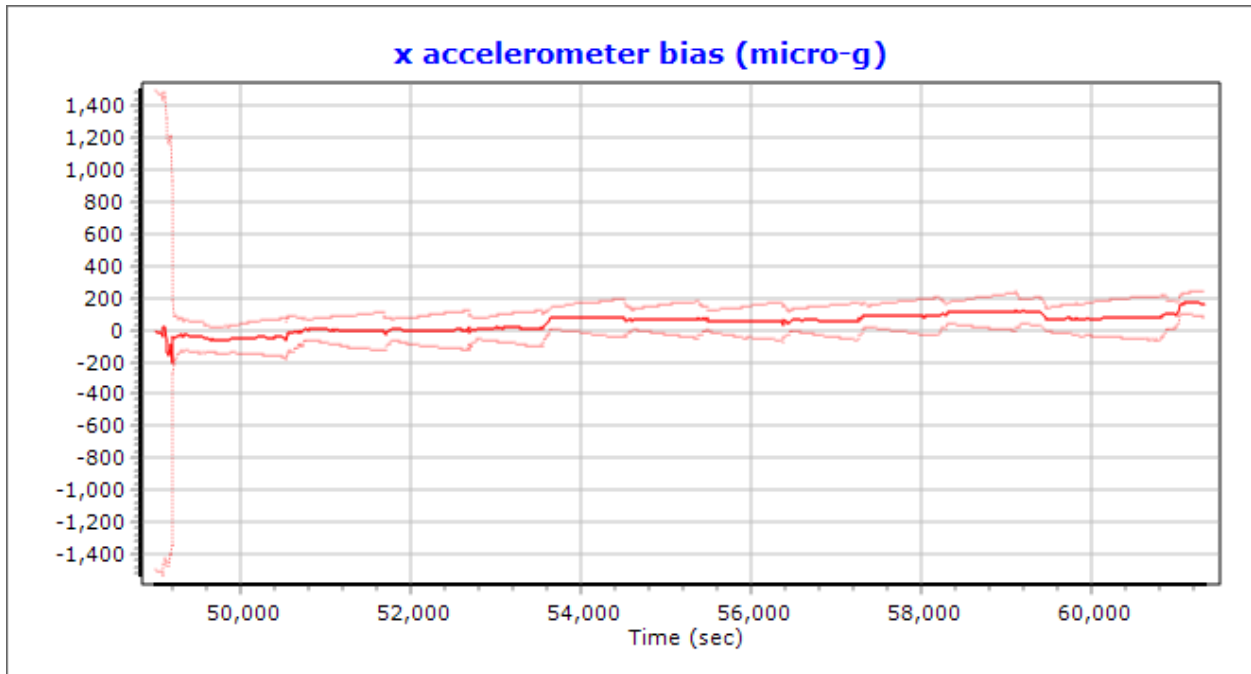
Average: 30.14

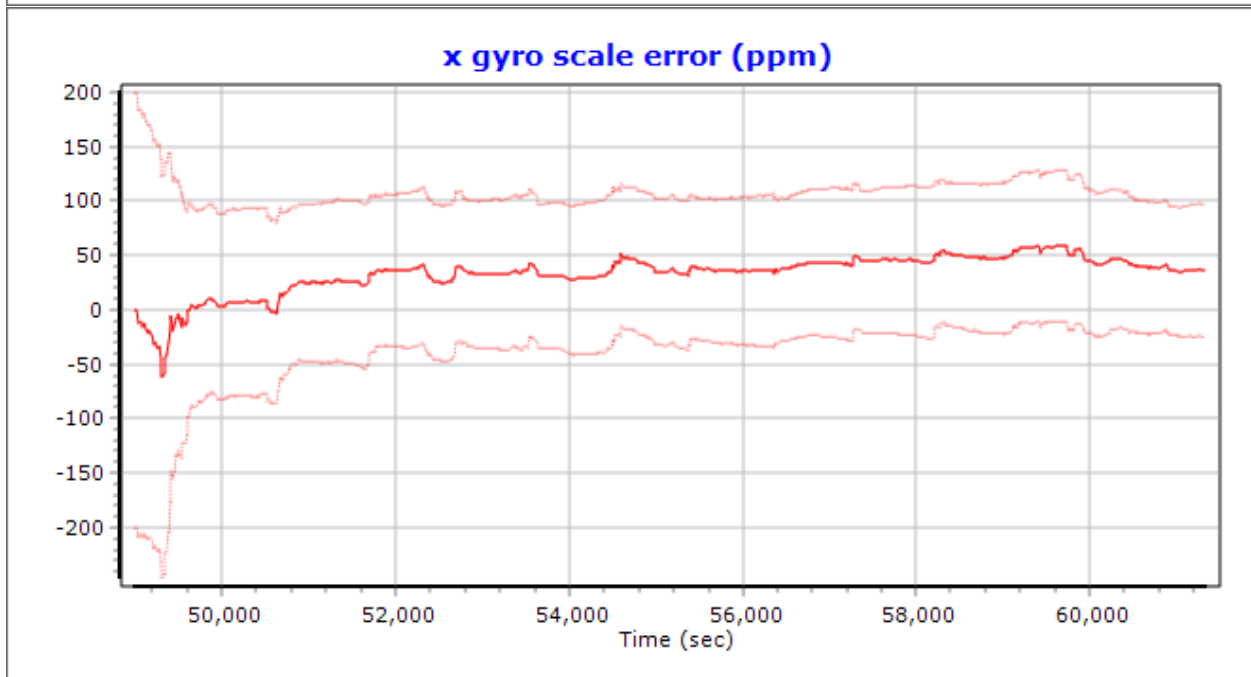
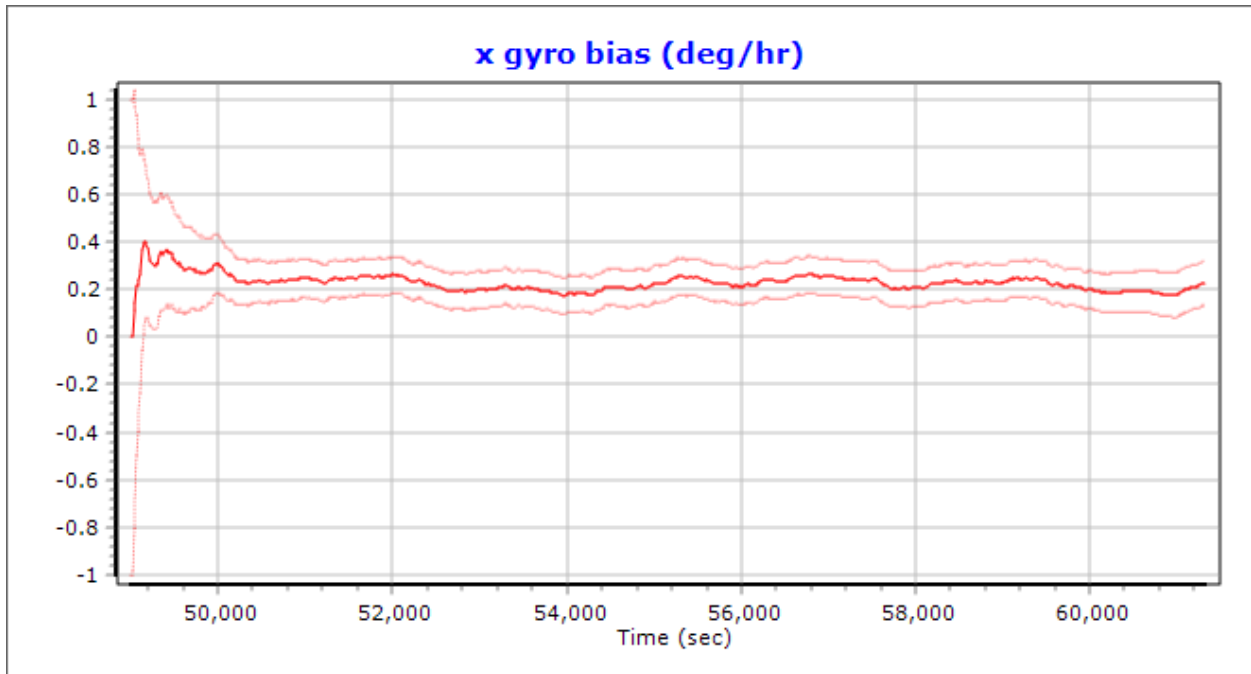
First Epoch: 64.27

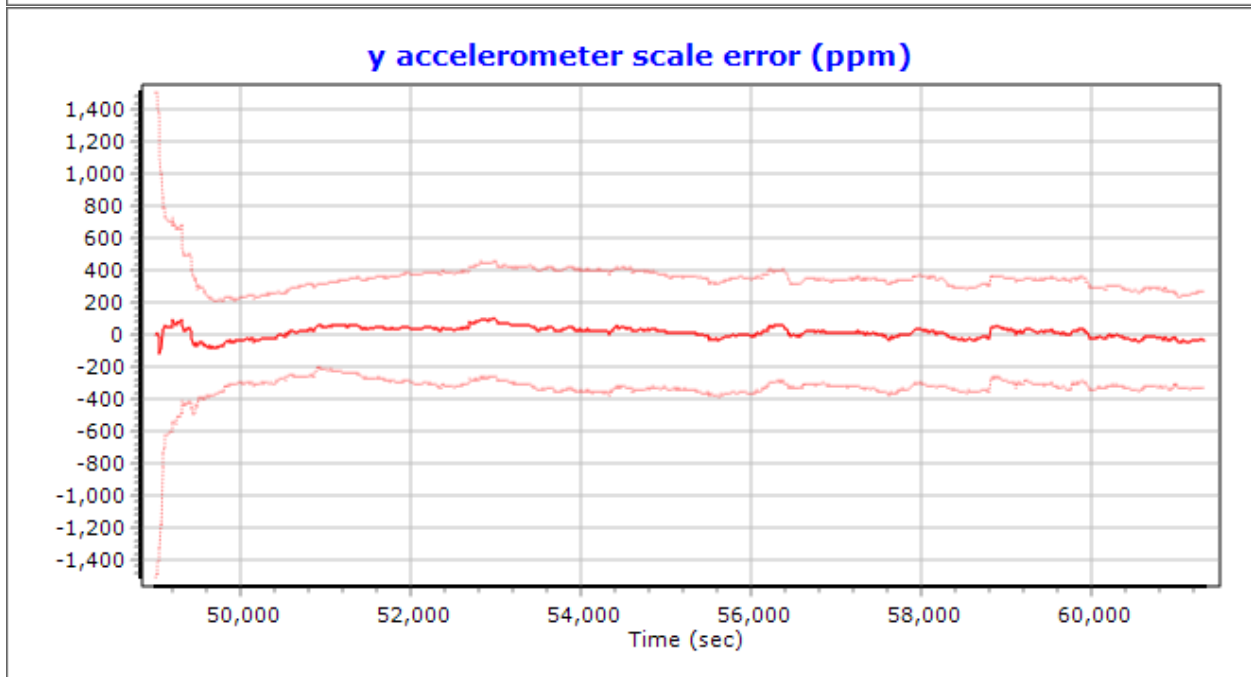
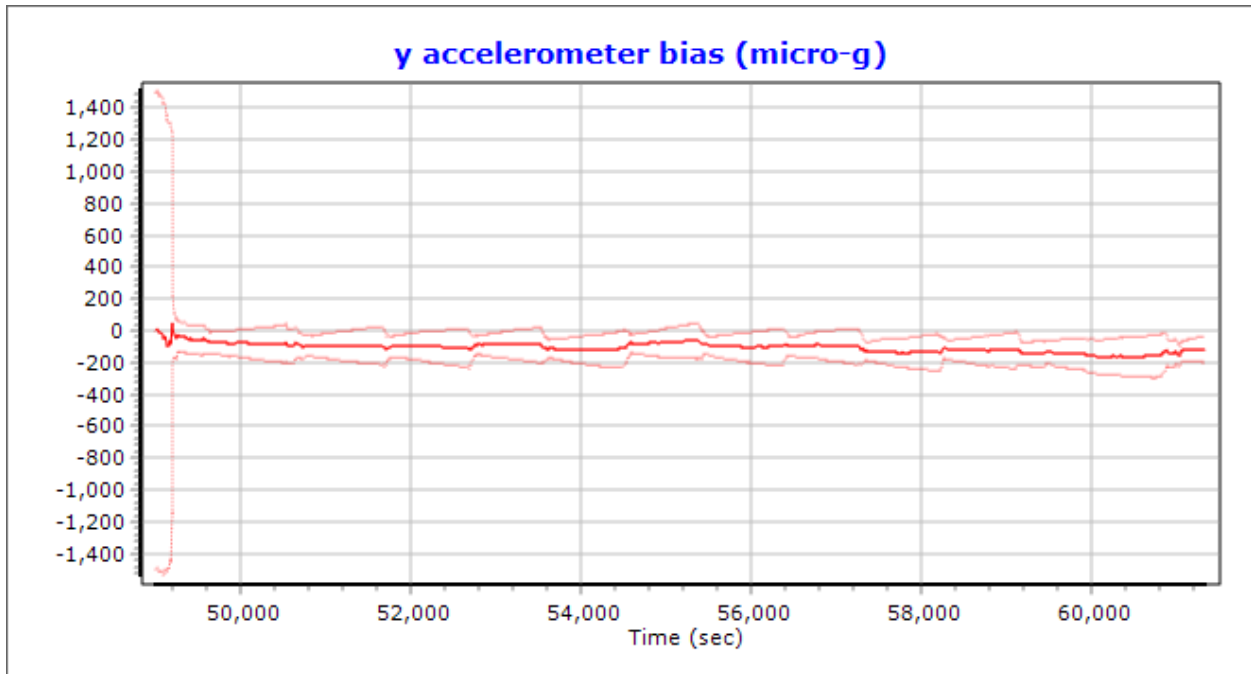
Last Epoch: 64.26

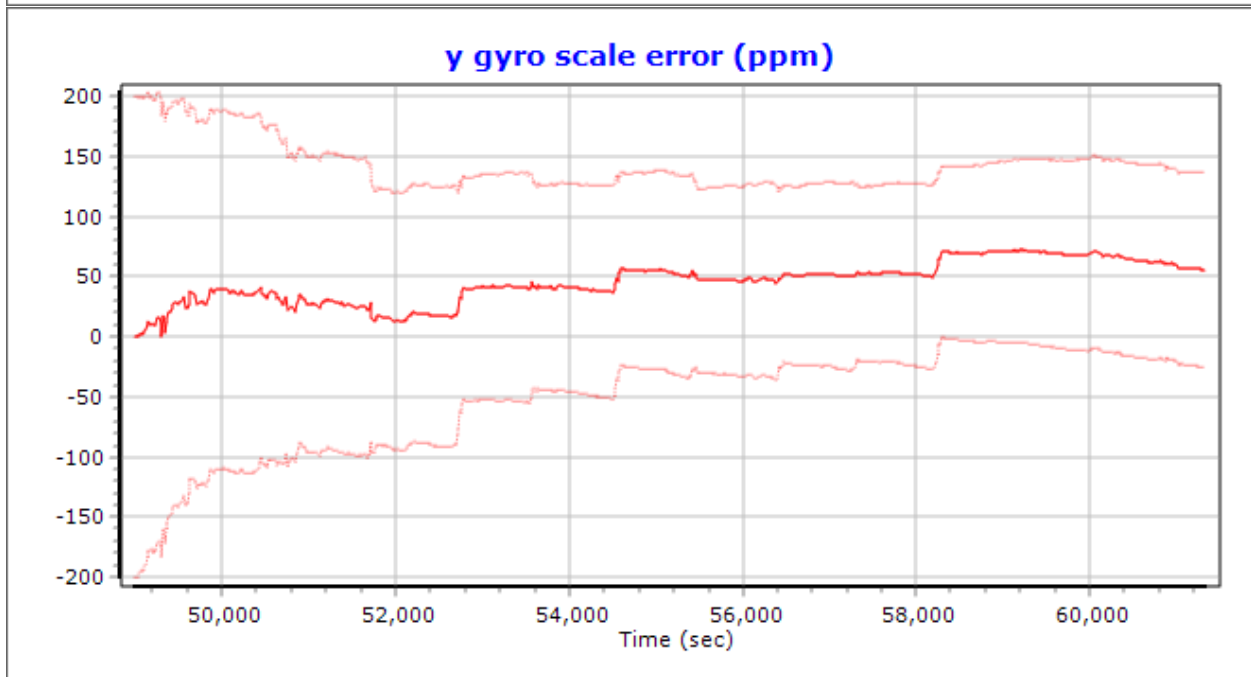
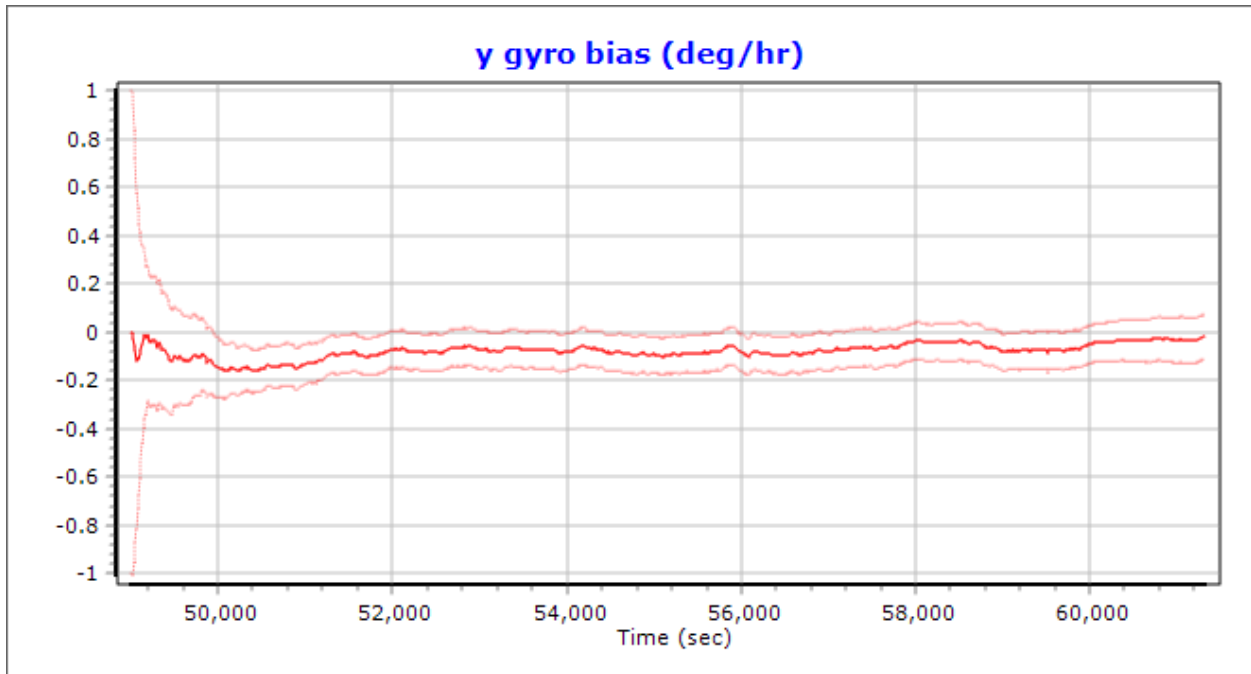
CORS Base Stations

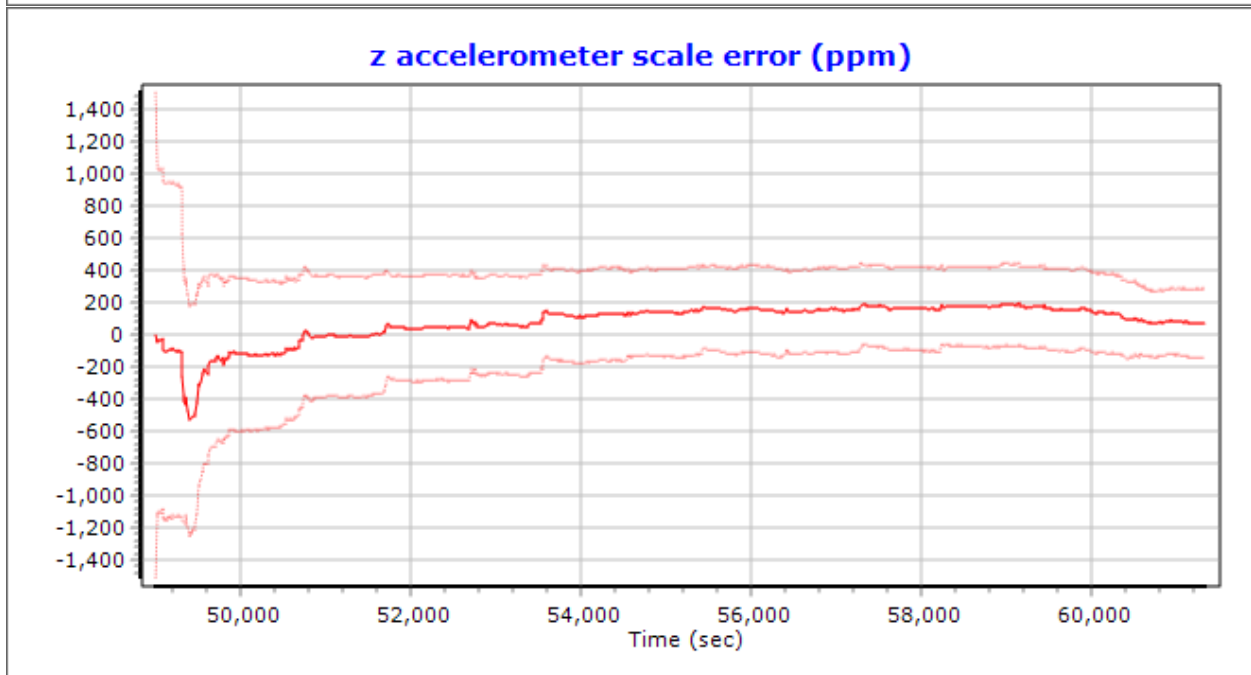
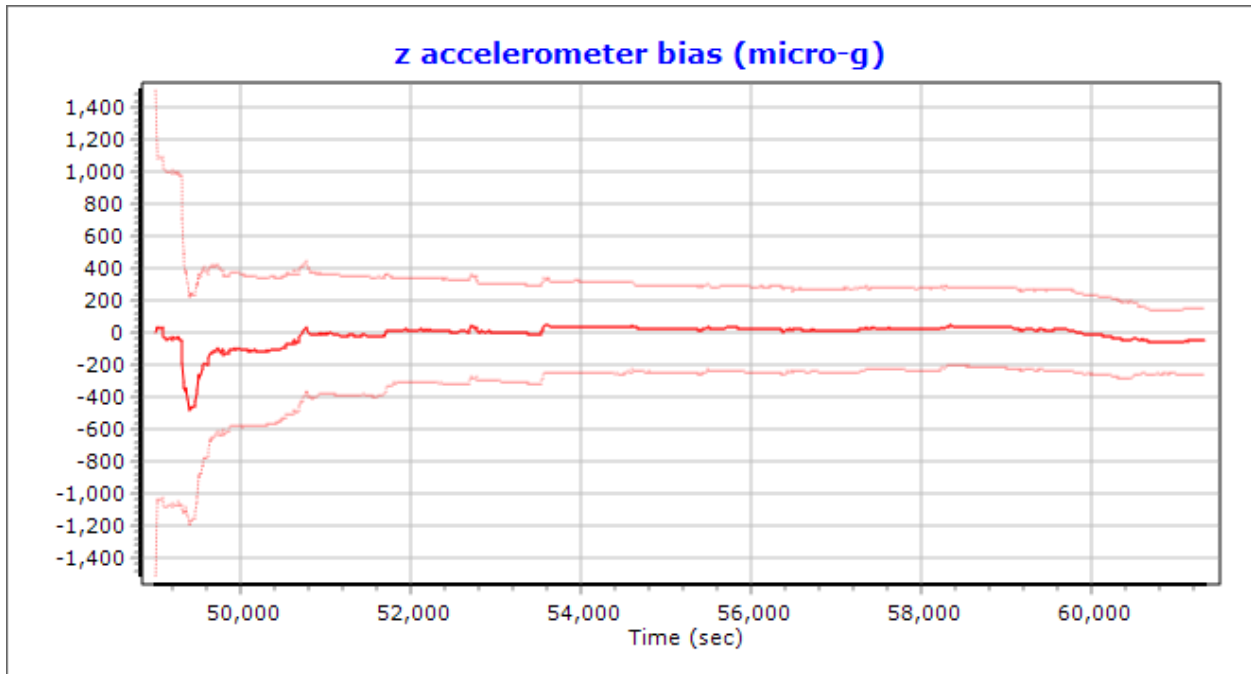
Station	Original (m)			Adjusted (m)		
	Latitude	Longitude	Altitude	Latitude	Longitude	Altitude
ZDC1	N39°06'05.74453"	W77°32'33.88957"	79.595	N39°06'05.74458"	W77°32'33.88947"	79.609
WVBR	N39°18'28.91343"	W80°16'38.64418"	268.986	N39°18'28.91319"	W80°16'38.64450"	268.993
PAFU	N39°55'35.71866"	W79°41'50.53532"	326.746	N39°55'35.71848"	W79°41'50.53563"	326.753
LOYQ	N39°38'02.62366"	W77°42'51.12059"	127.23	N39°38'02.62384"	W77°42'51.12086"	127.209
LOYP	N38°01'13.85599"	W79°01'07.26302"	392.062	N38°01'13.85577"	W79°01'07.26308"	392.091
LOYI	N38°01'59.45428"	W78°30'42.43165"	154.965	N38°01'59.45425"	W78°30'42.43176"	154.959
WVNR	N38°53'44.53460"	W79°51'30.29513"	581.507	N38°53'44.53430"	W79°51'30.29470"	581.497
WVMF	N39°04'32.37375"	W78°55'57.02184"	312.272	N39°04'32.37375"	W78°55'57.02184"	312.272
WVGB	N38°25'48.45401"	W79°49'01.31941"	811.181	N38°25'48.45366"	W79°49'01.31969"	811.18
WVBU	N39°20'16.85132"	W78°54'48.61087"	198.787	N39°20'16.85121"	W78°54'48.61110"	198.792
LOYJ	N38°28'20.92225"	W78°00'36.16910"	103.853	N38°28'20.92225"	W78°00'36.16881"	103.857
LOYC	N39°07'12.57576"	W78°12'02.63189"	201.807	N39°07'12.57558"	W78°12'02.63214"	201.834
LOYA	N38°25'33.92921"	W78°53'21.79773"	363.919	N38°25'33.92916"	W78°53'21.79791"	363.961
ALLG	N39°39'13.91862"	W78°43'50.52711"	174.48	N39°39'13.91862"	W78°43'50.52721"	174.484

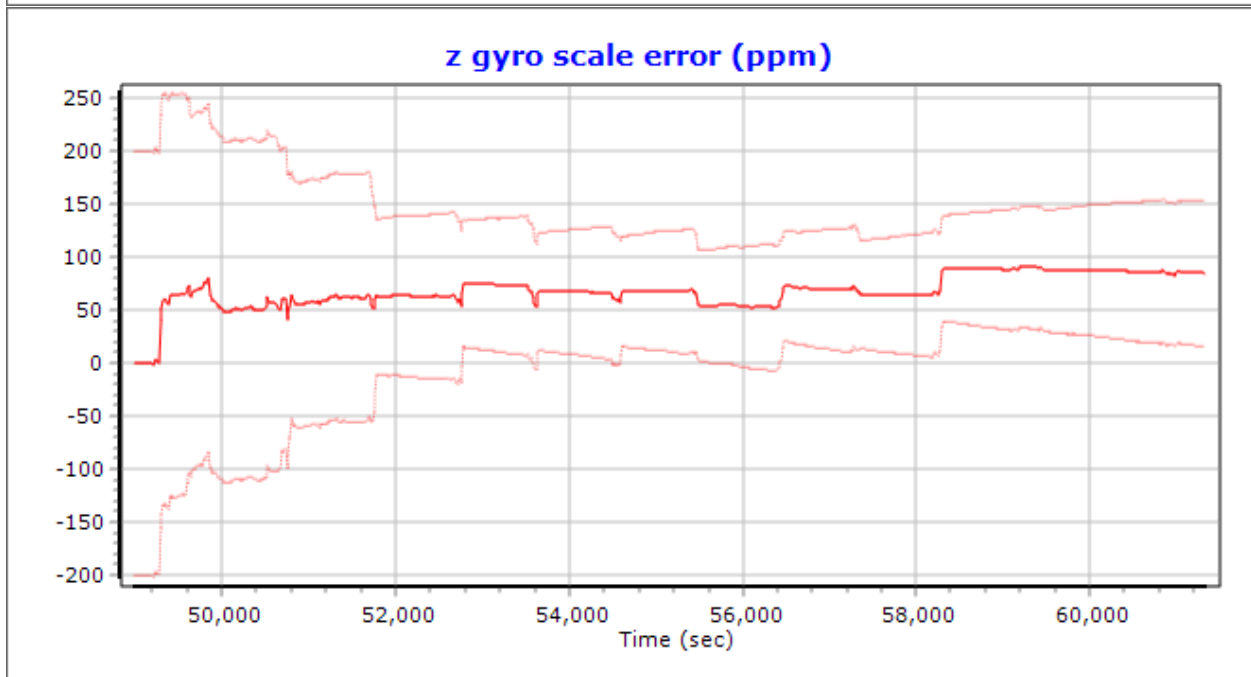
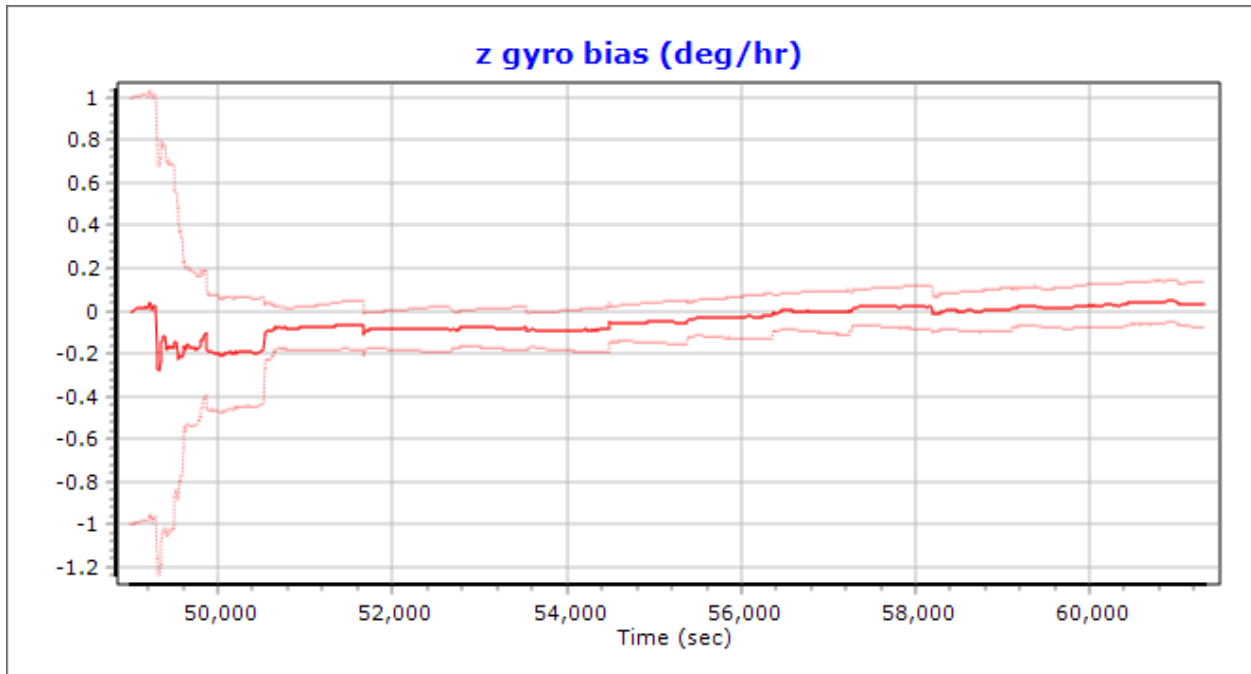


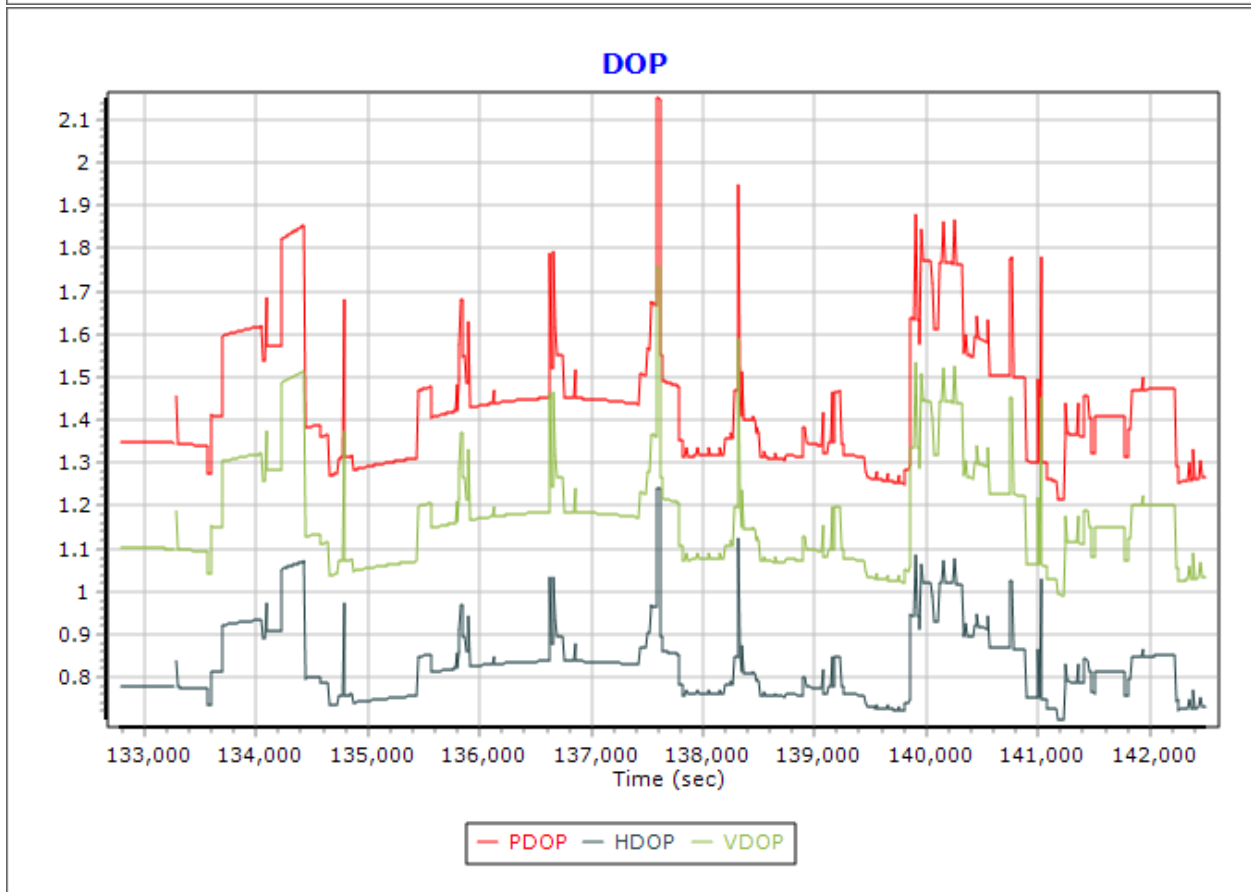
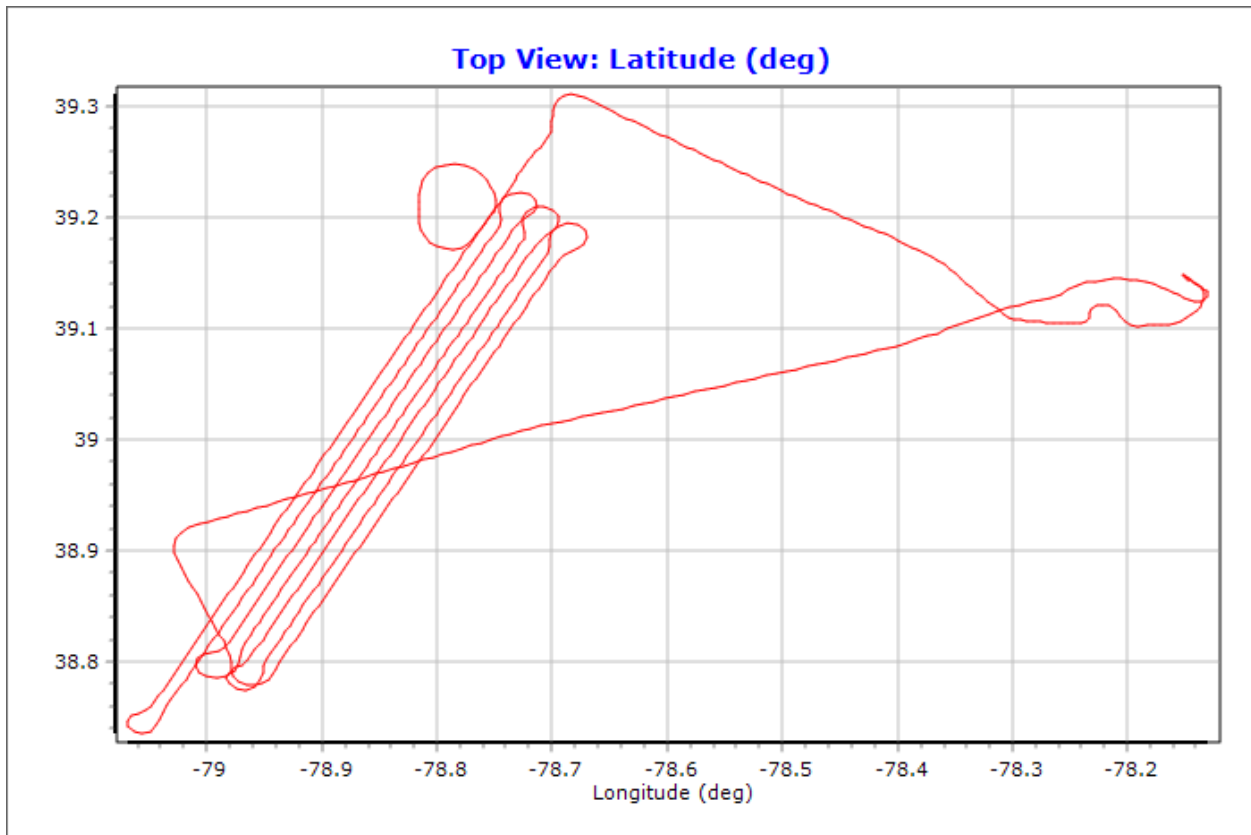




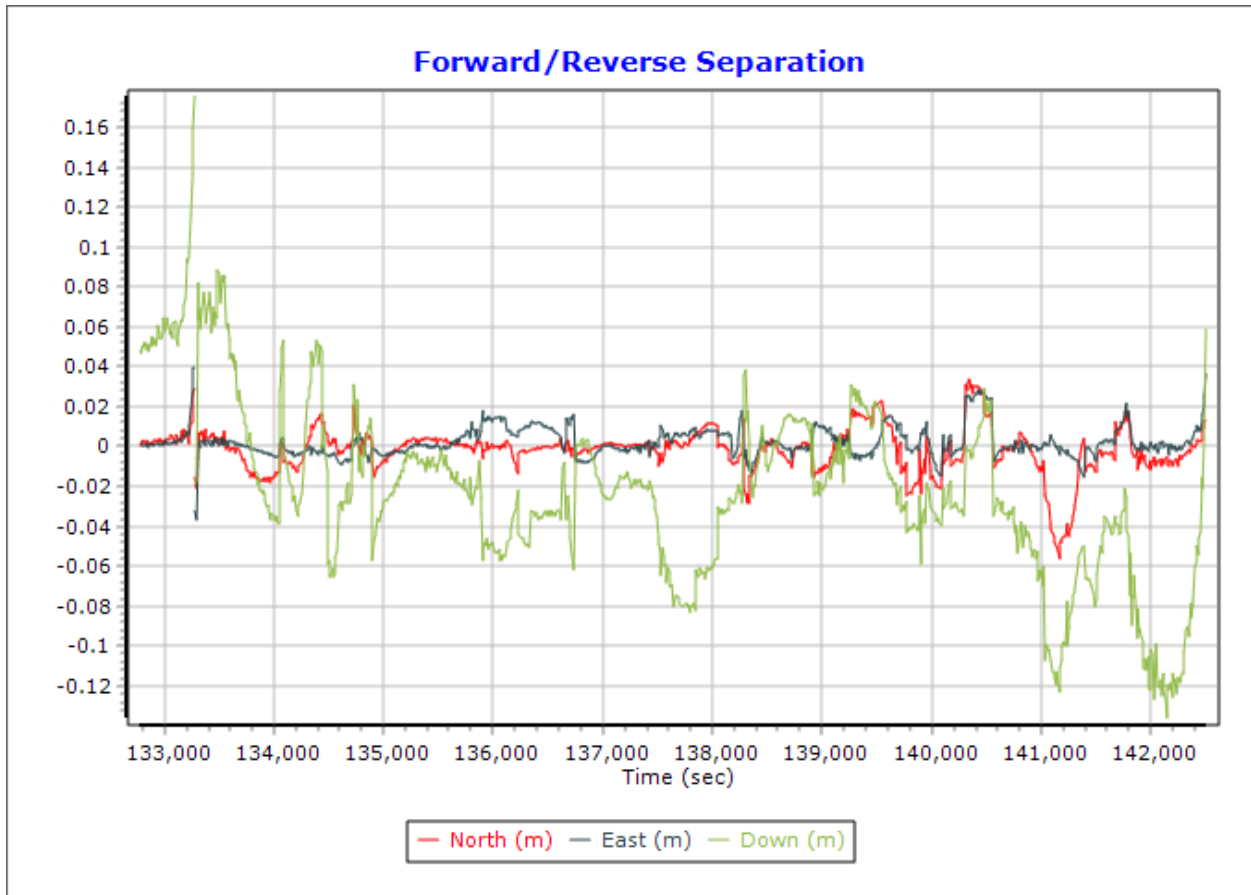


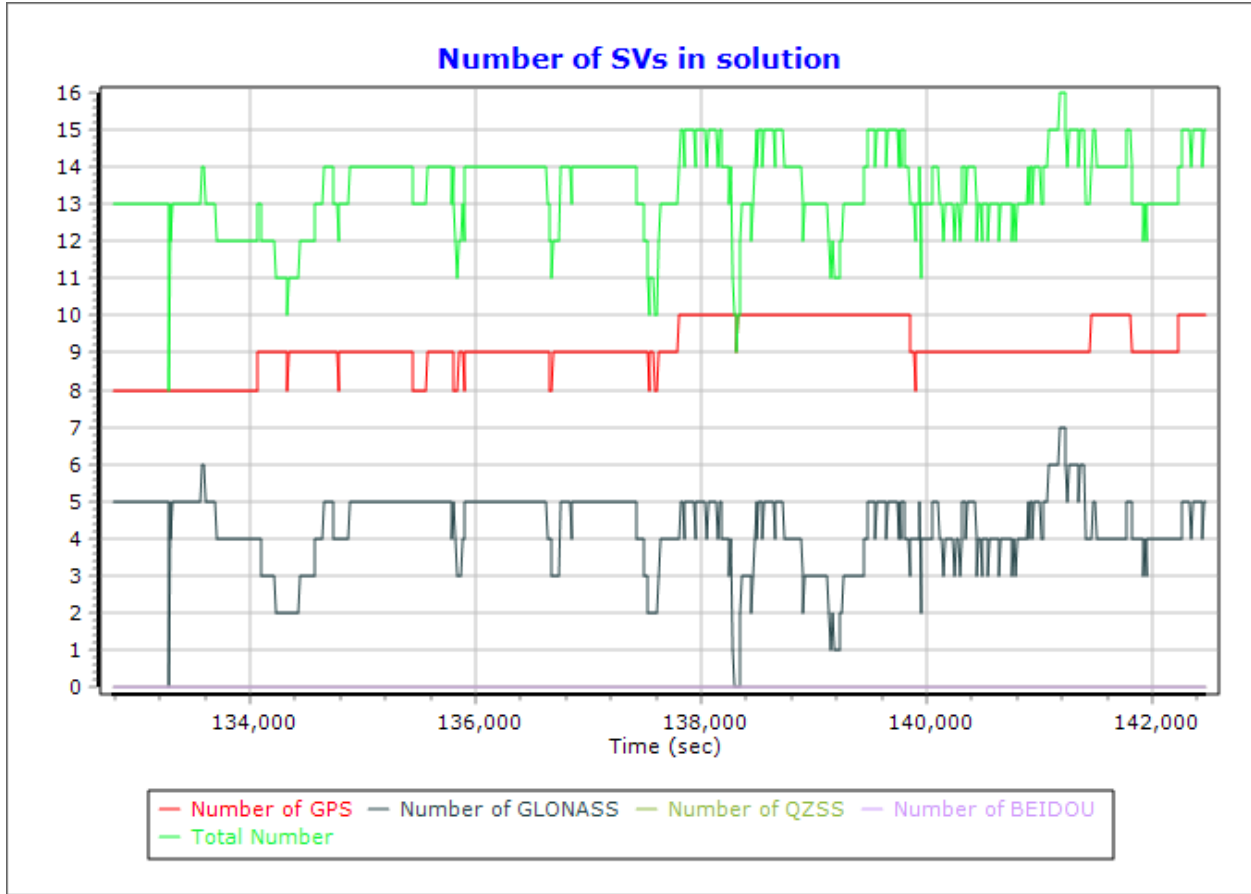












### Processing Summary Information

Program: POSpac MMS

Version: 7.2.5934.15637

Project: \\sa\data\216027\20170403\_WV\_A\05\_INS-GPS\_PROC\01\_POS\20170403\_WV\_A.pospac

Solution Type: IN-Fusion SmartBase

Fixed: 9726 (99.99%)

Float: 0 (0.0%)

No Solution: 1 (0.01%)

Number of Epochs:

Total in RAW file: 9745

No processed position: 19

Fwd/Rev Separation RMS Values (m):

East: 0.008

North: 0.012

Height: 0.049

Fwd/Rev Sep. RMS for 25%-75% weighting (m): 4872 occurrences

East: 0.007

North: 0.008

Height: 0.033

Position Standard Deviation Percentages:

0.00 - 0.10 m: 99.53 %

0.10 - 0.30 m: 0.47 %

0.30 - 1.00 m: 0.0 %

1.00 - 5.00 m: 0.0 %

5.00 m + over: 0.0 %

Percentages of epochs with DD\_DOP over 10.00: 0 %

DOP over Tol: 1.42 %

Baseline Distances (km):

Maximum: 66.18

Minimum: 8.62

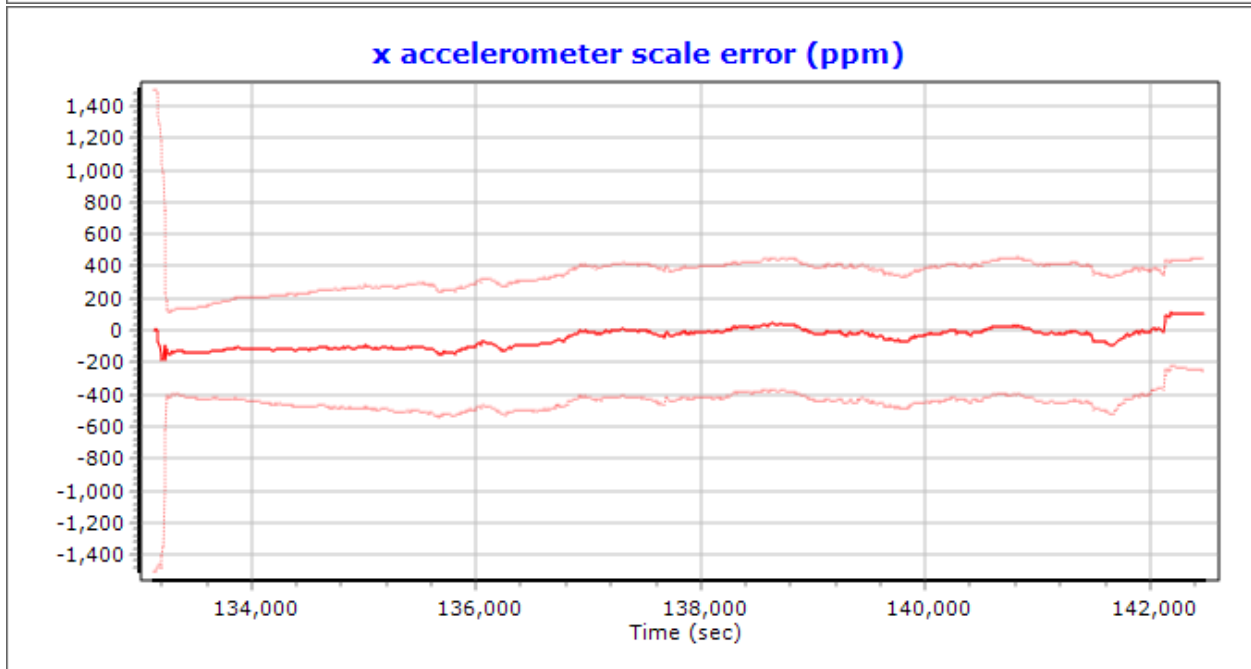
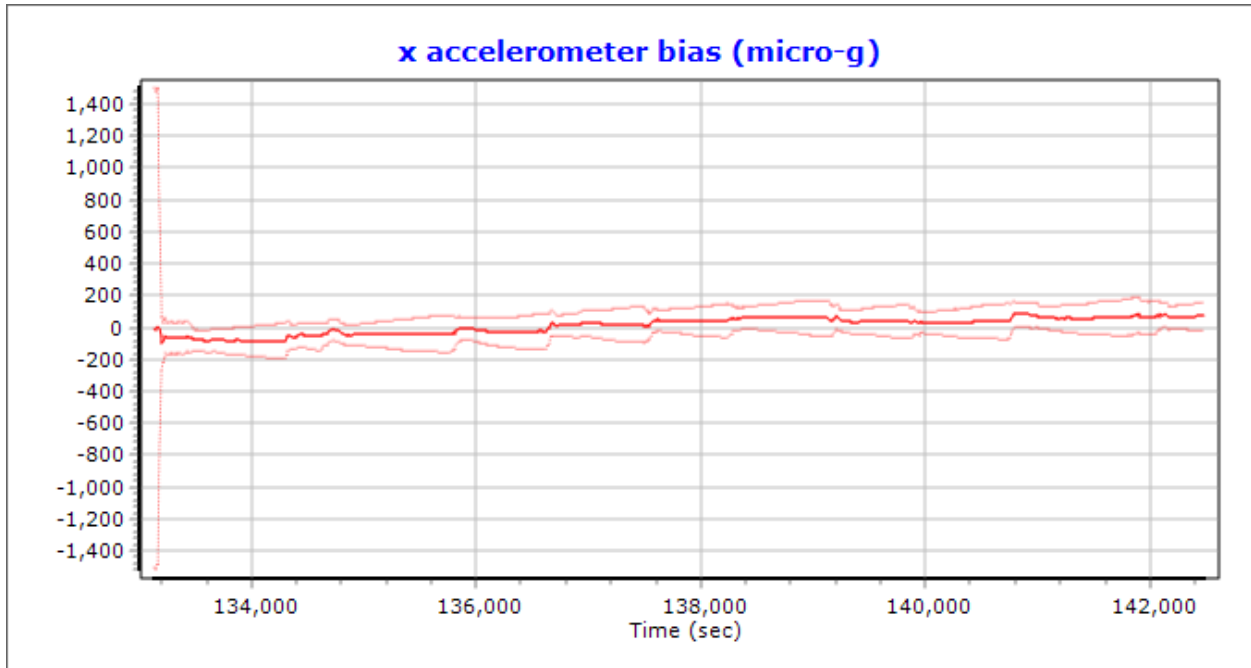
Average: 30.14

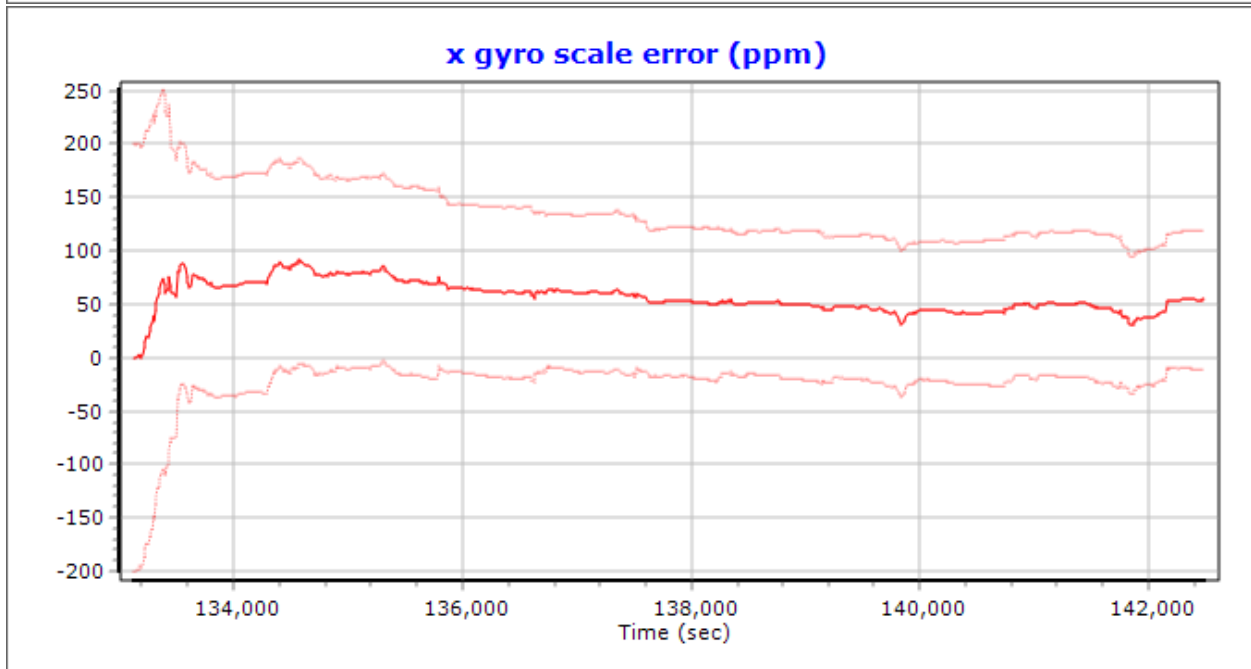
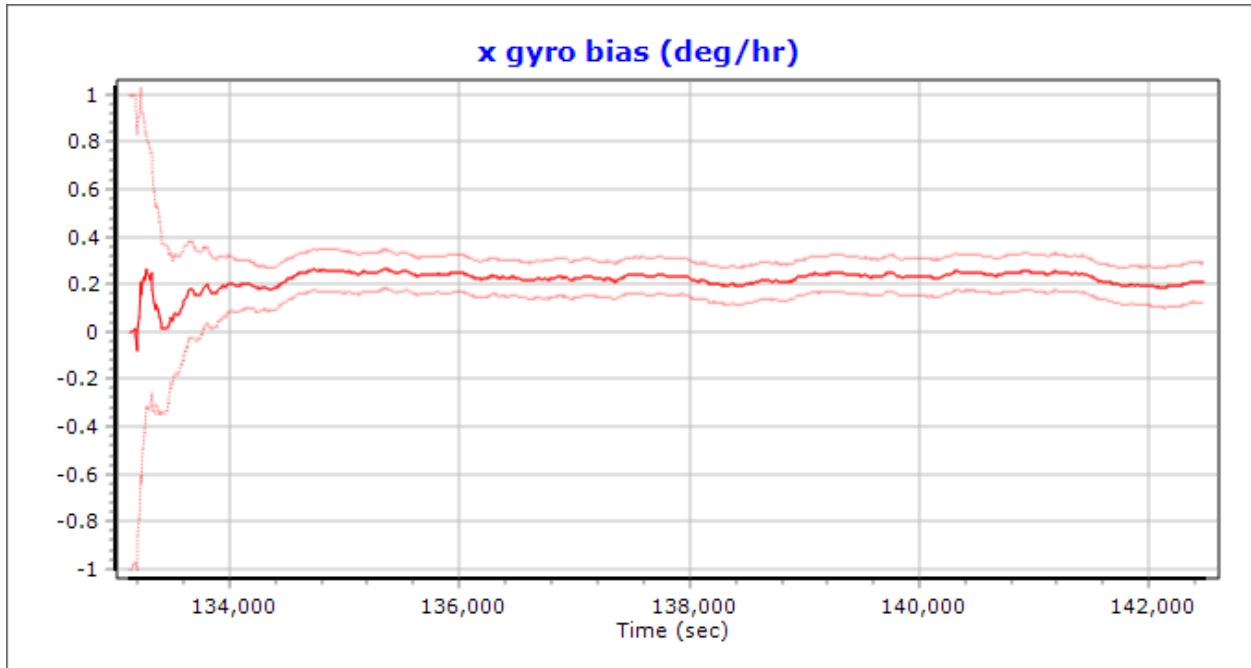
First Epoch: 64.27

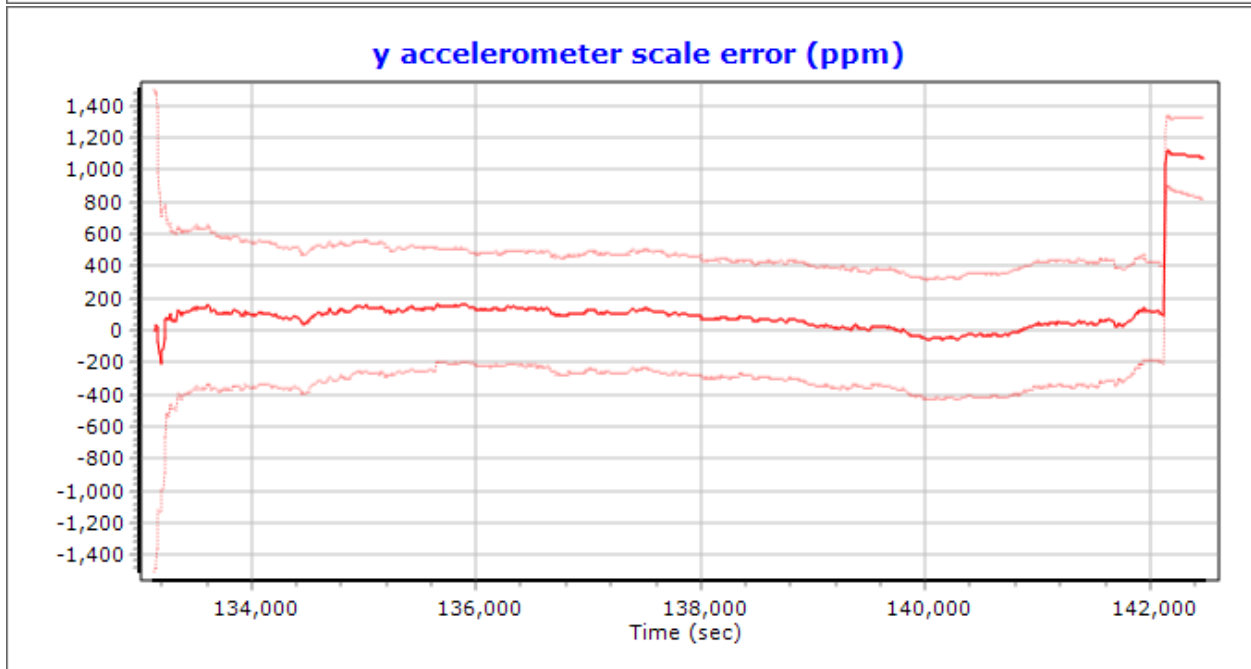
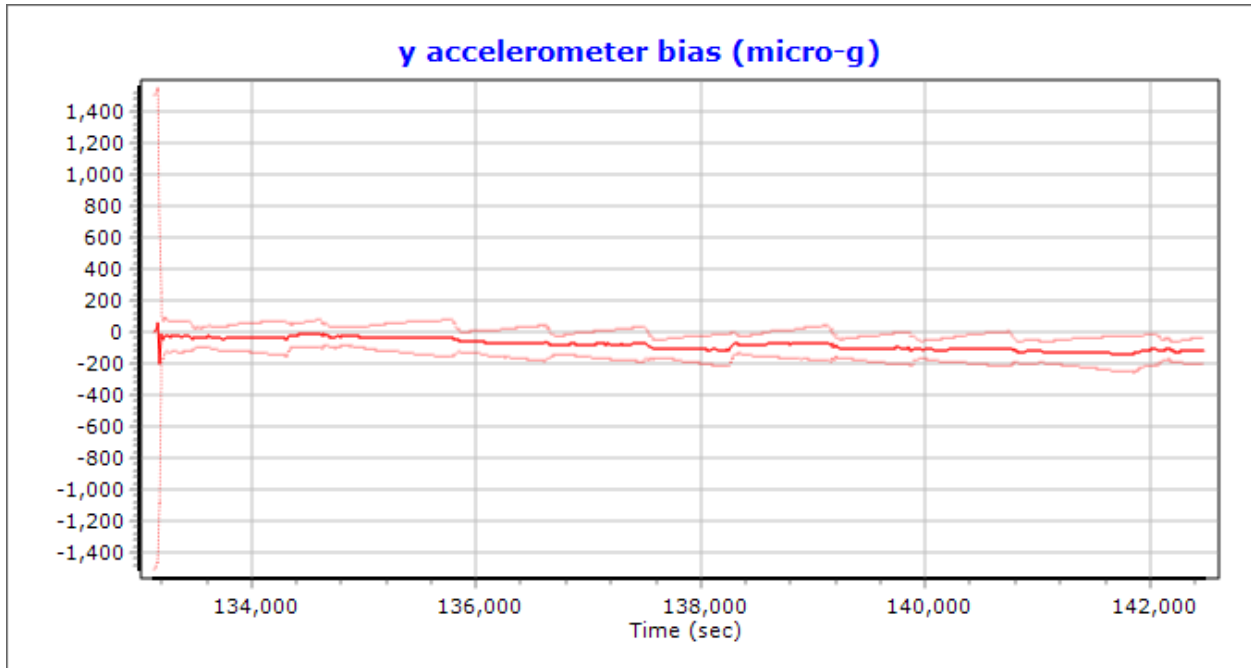
Last Epoch: 64.26

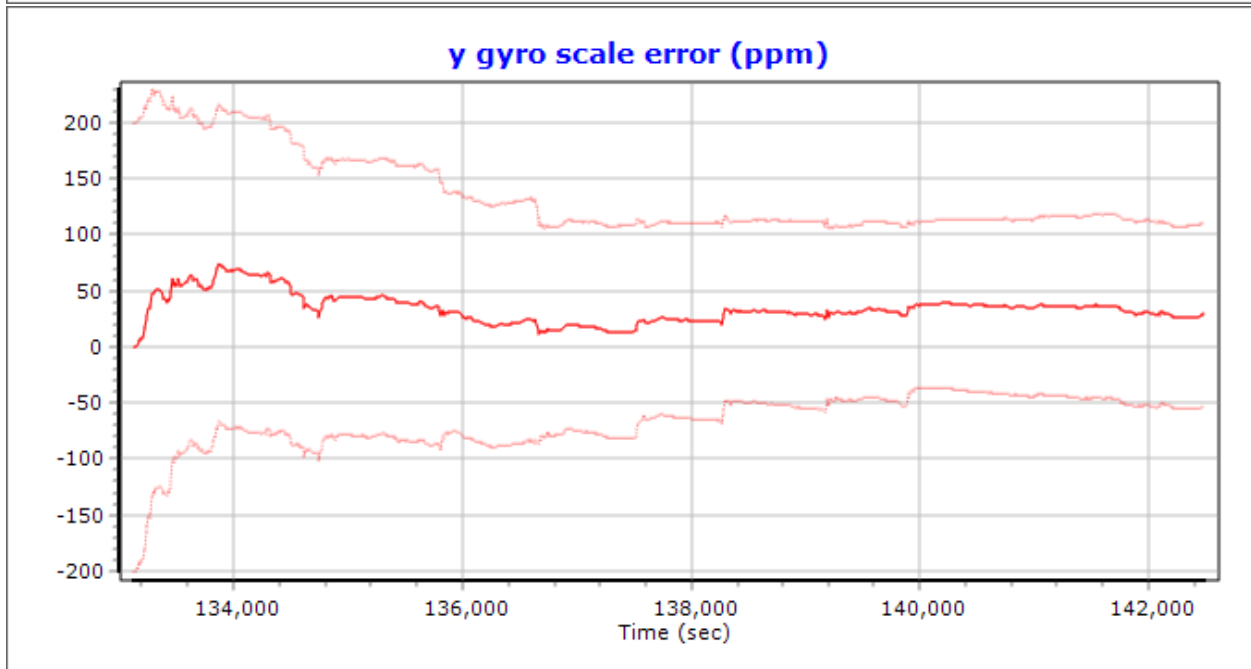
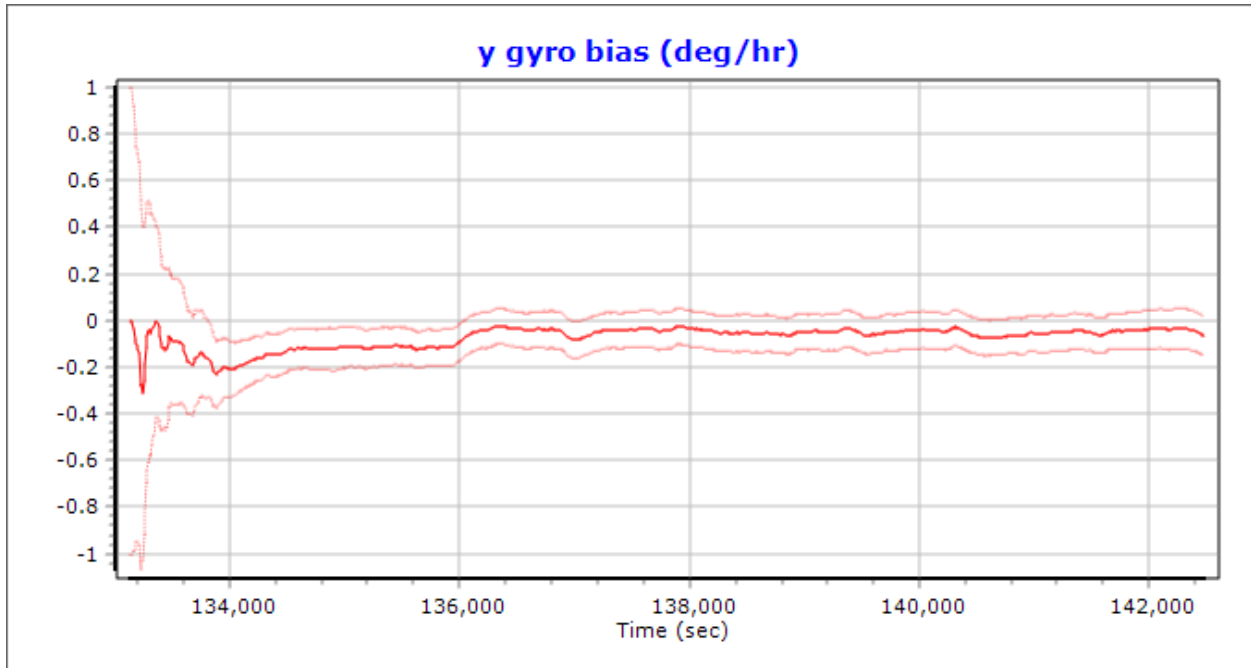
CORS Base Stations

Station	Original (m)			Adjusted (m)		
	Latitude	Longitude	Altitude	Latitude	Longitude	Altitude
WVMF	N39°04'32.37366"	W78°55'57.02194"	312.273	N39°04'32.37366"	W78°55'57.02194"	312.273
WVCV	N39°00'55.10510"	W79°27'25.03381"	967.959	N39°00'55.10430"	W79°27'25.03298"	967.962
WVBU	N39°20'16.85123"	W78°54'48.61102"	198.786	N39°20'16.85106"	W78°54'48.61107"	198.784
LOYY	N38°53'18.57655"	W78°29'56.96666"	220.904	N38°53'18.57656"	W78°29'56.96671"	220.913
LOYC	N39°07'12.57566"	W78°12'02.63198"	201.807	N39°07'12.57542"	W78°12'02.63204"	201.837
LOYA	N38°25'33.92912"	W78°53'21.79785"	363.918	N38°25'33.92904"	W78°53'21.79796"	363.961

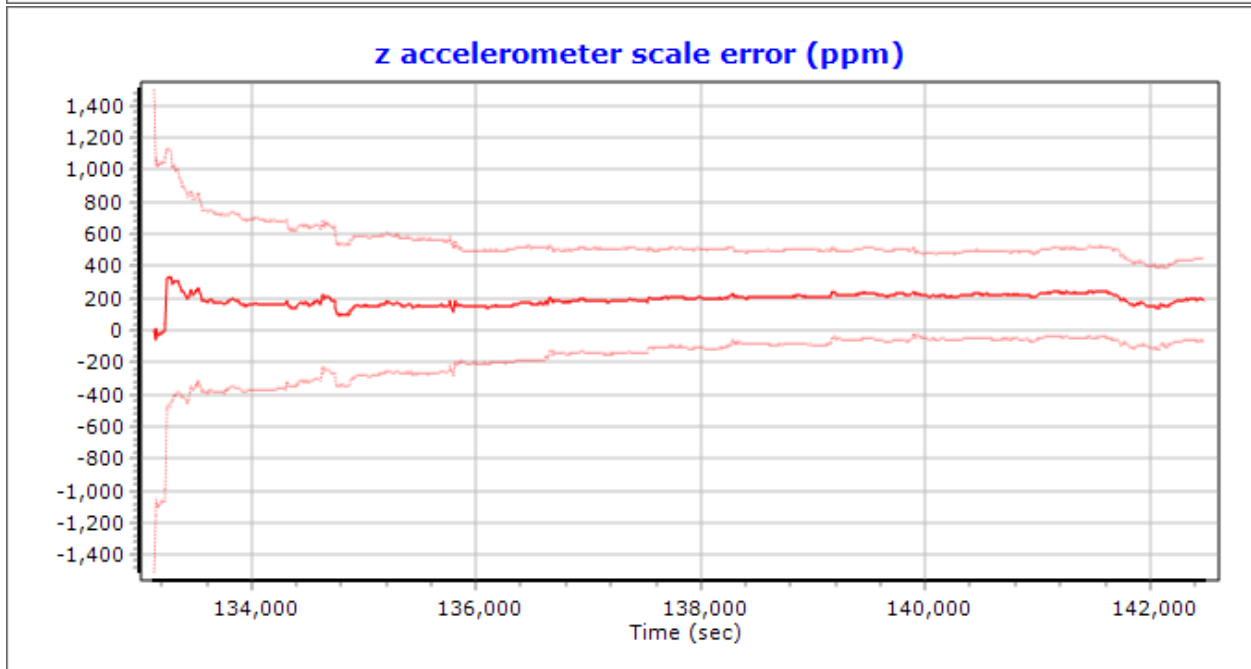
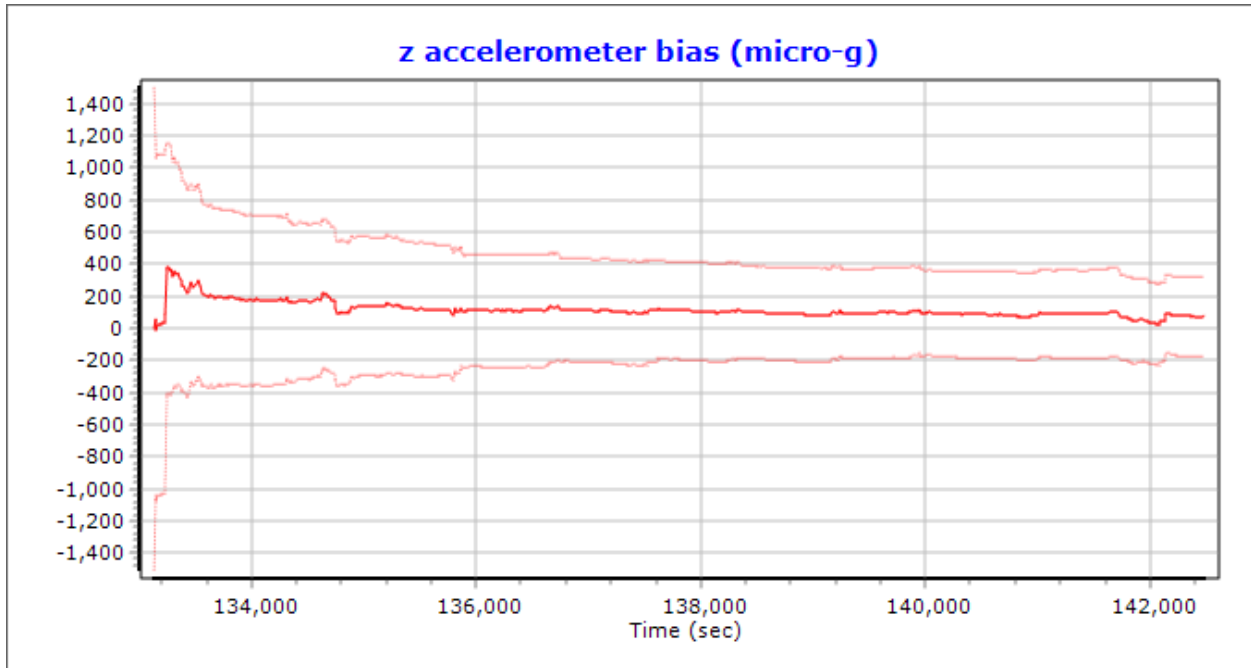


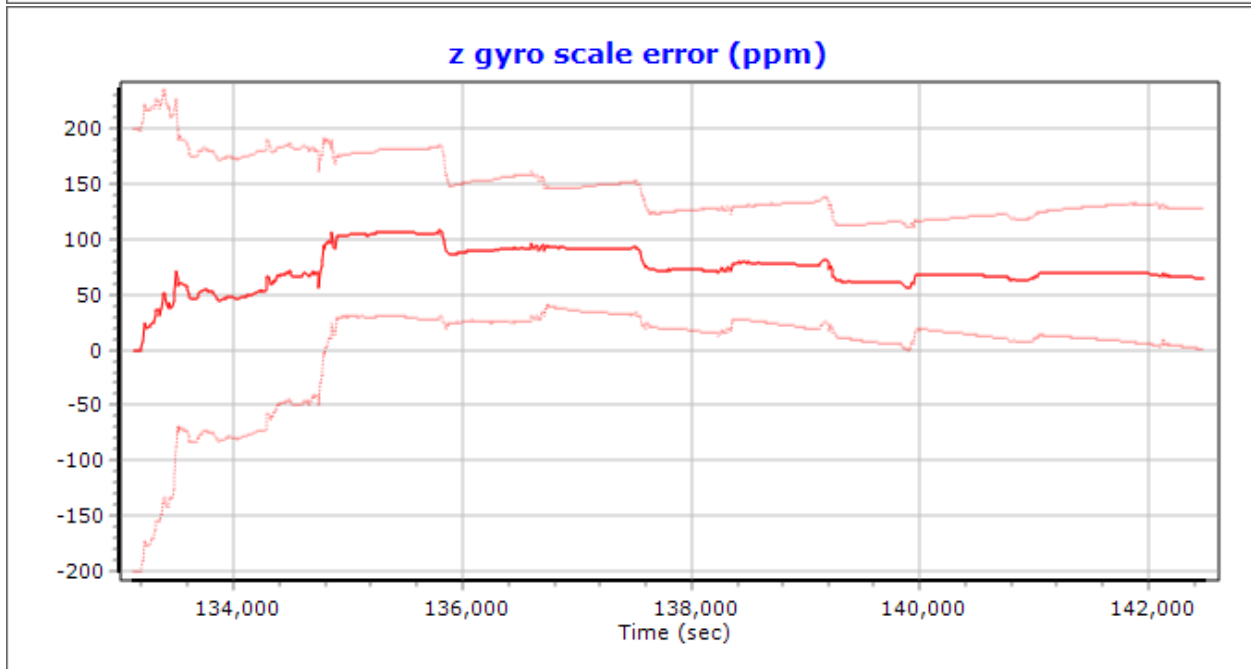
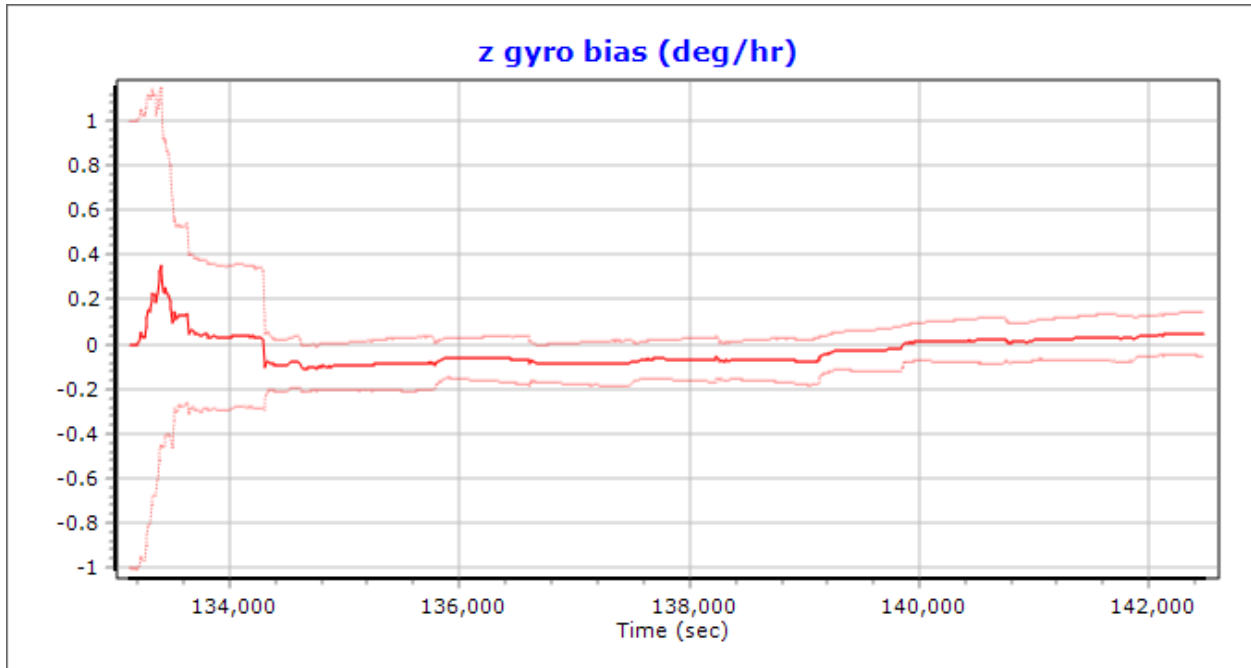


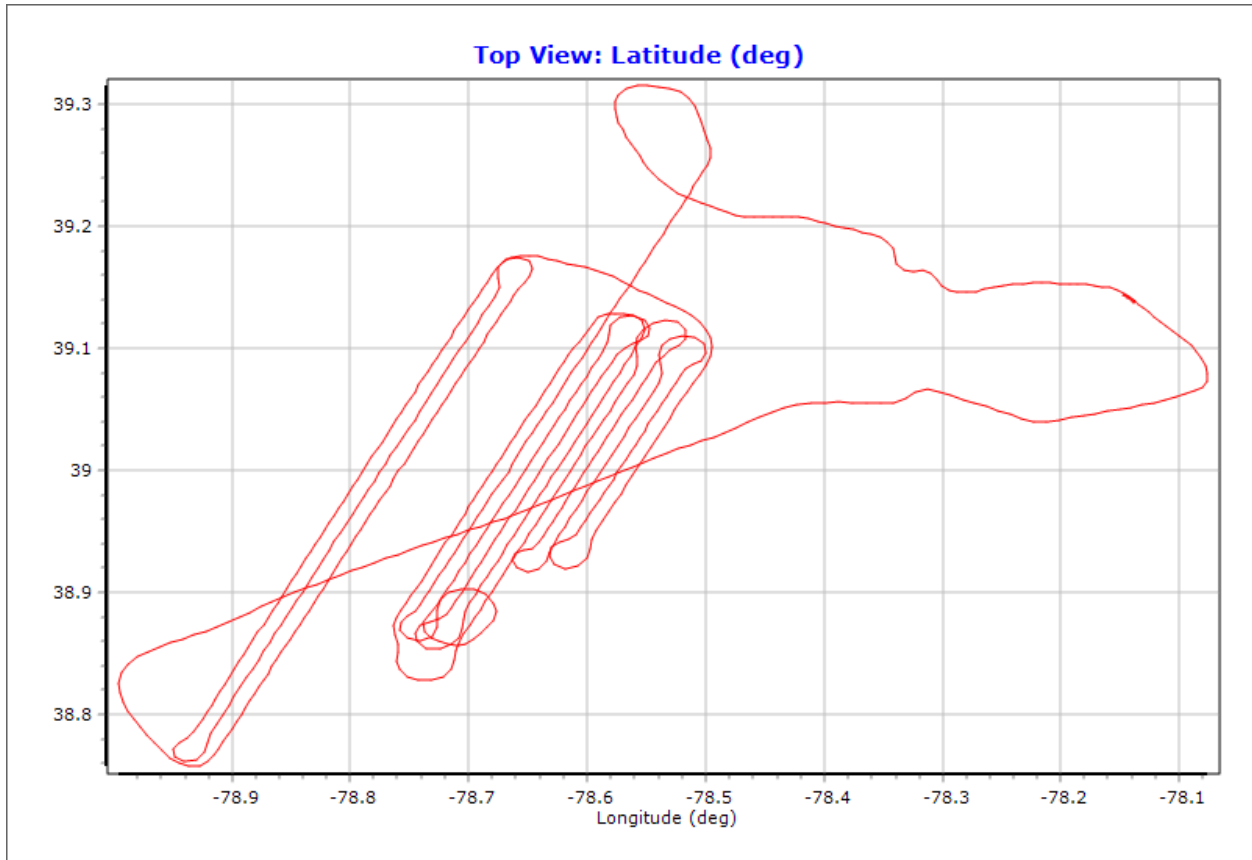


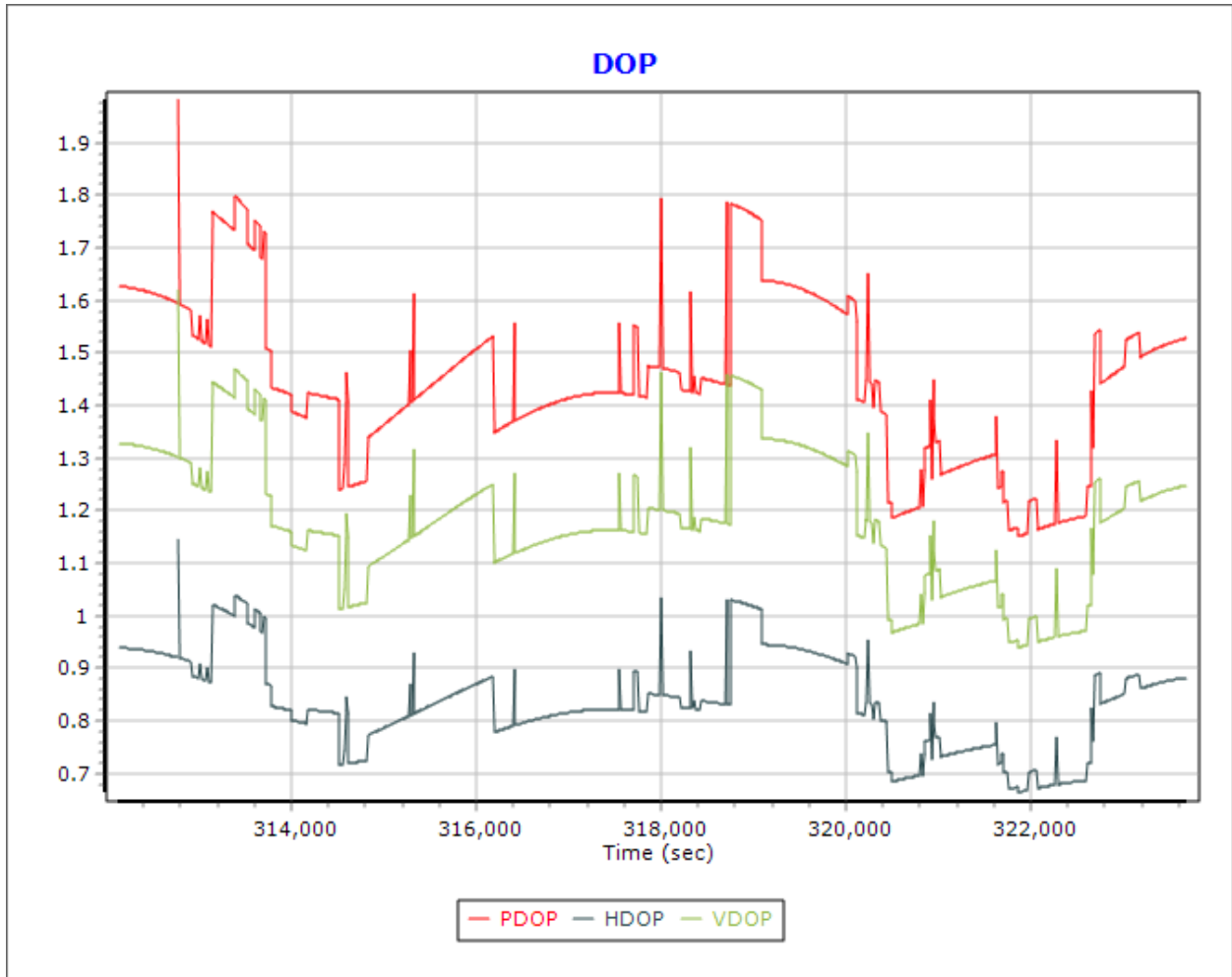


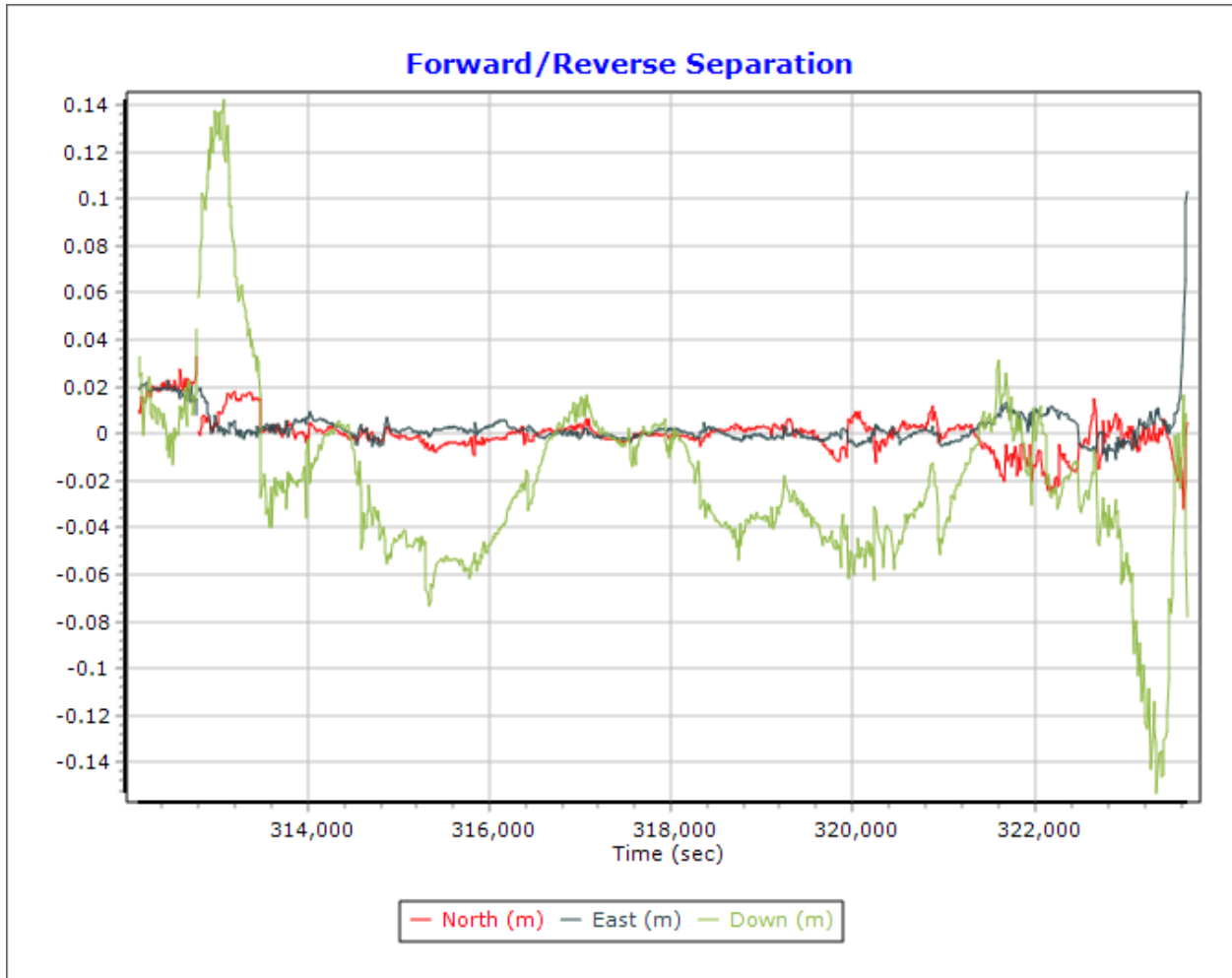


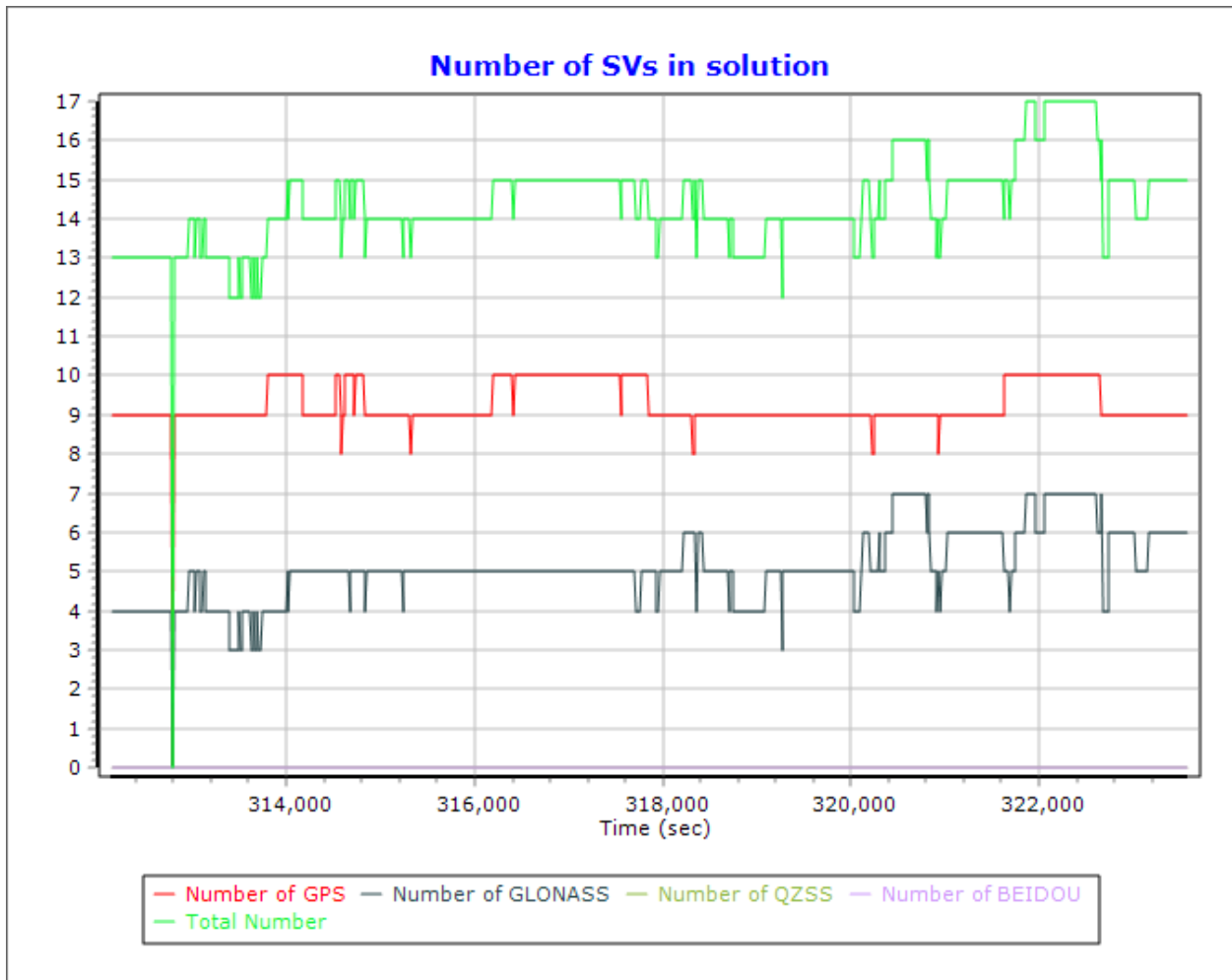












### Processing Summary Information

Program: POSpac MMS

Version: 7.2.5934.15637

Project: \\sa\data\216027\20170405\_WV\_A\05\_INS-GPS\_PROC\01\_POS\20170405\_WV\_A.pospac

Solution Type: IN-Fusion SmartBase

Fixed: 11466 (99.99%)

Float: 0 (0.0%)

No Solution: 1 (0.01%)

Number of Epochs:

Total in RAW file: 11564

No processed position: 98

Fwd/Rev Separation RMS Values (m):

East: 0.008

North: 0.008

Height: 0.044

Fwd/Rev Sep. RMS for 25%-75% weighting (m): 5781 occurrences

East: 0.002

North: 0.004

Height: 0.036

Position Standard Deviation Percentages:

0.00 - 0.10 m: 99.98 %

0.10 - 0.30 m: 0.02 %

0.30 - 1.00 m: 0.0 %

1.00 - 5.00 m: 0.0 %

5.00 m + over: 0.0 %

Percentages of epochs with DD\_DOP over 10.00: 0 %

DOP over Tol: 1.45 %

Baseline Distances (km):

Maximum: 44.54

Minimum: 0.41

Average: 19.67

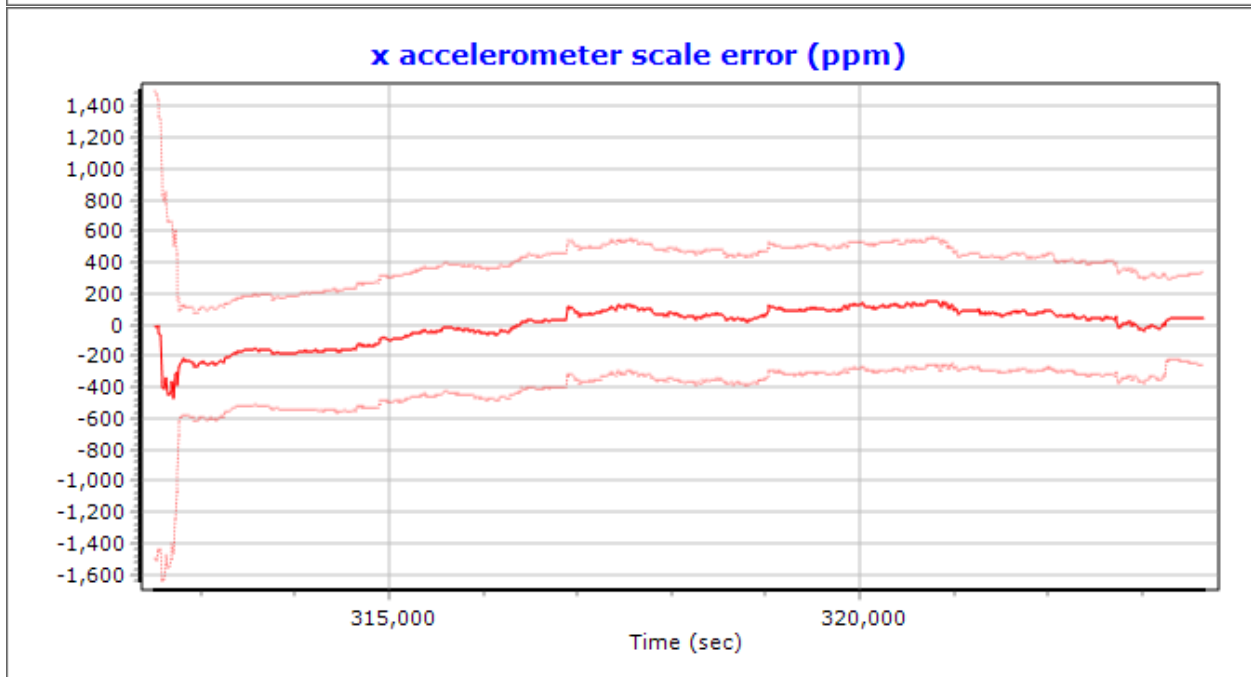
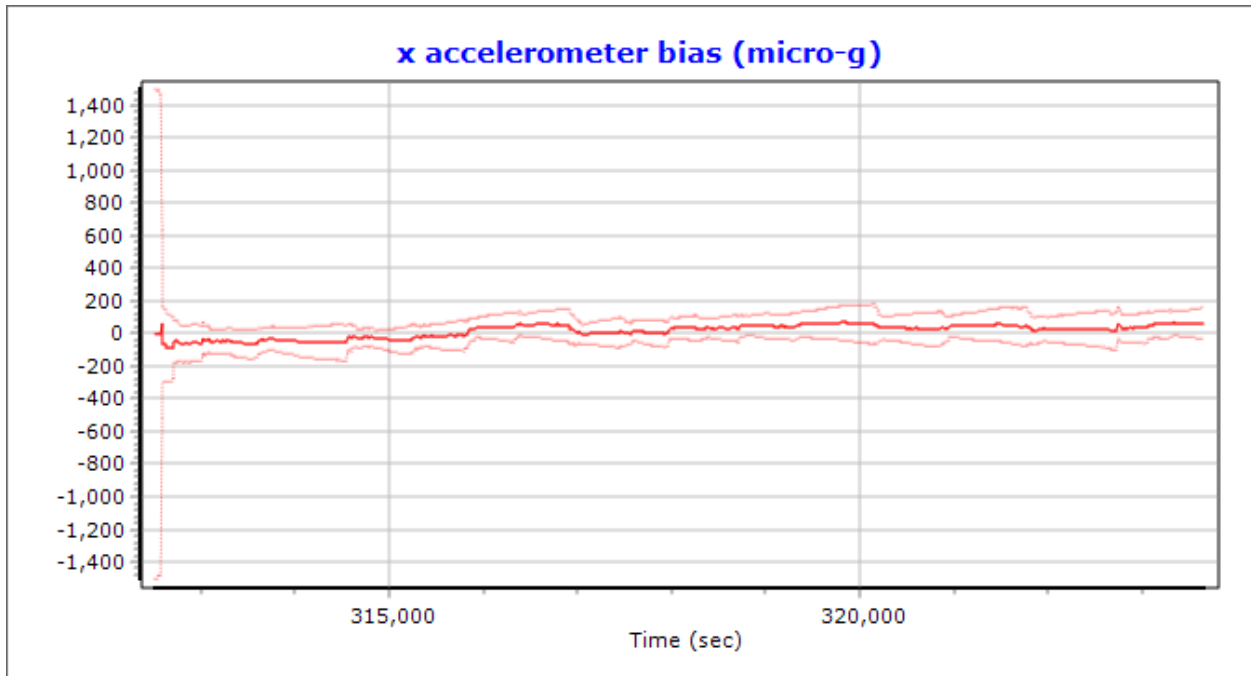
First Epoch: 40.18

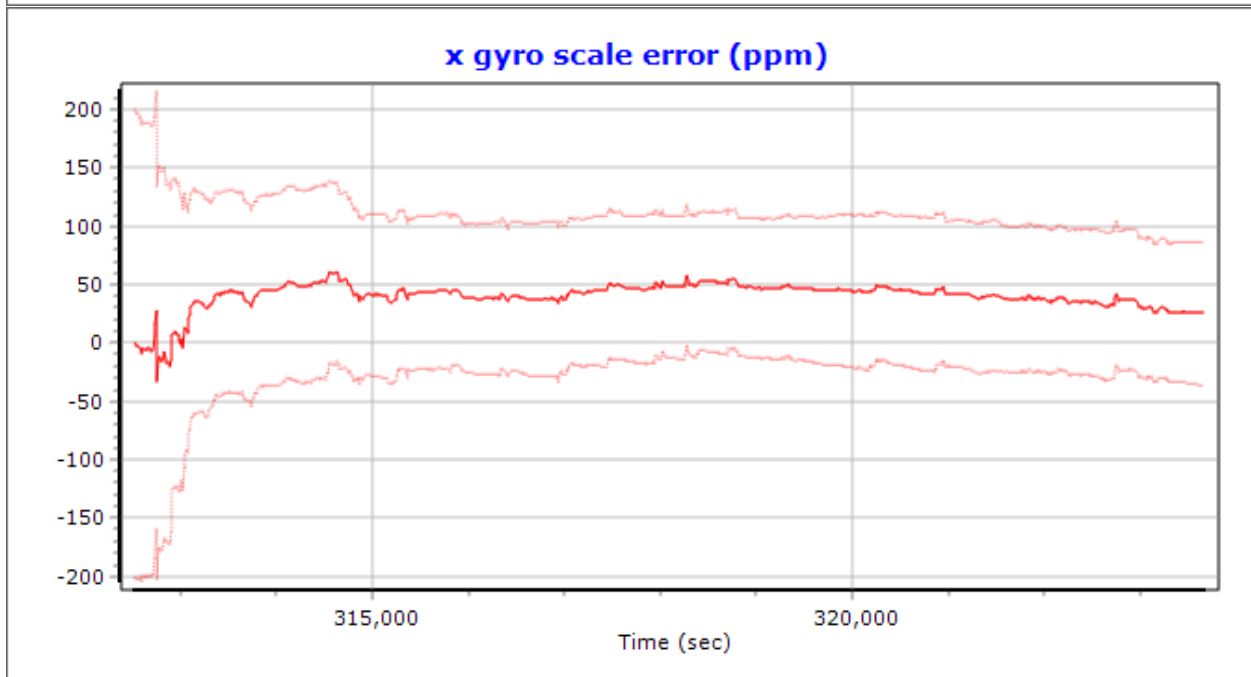
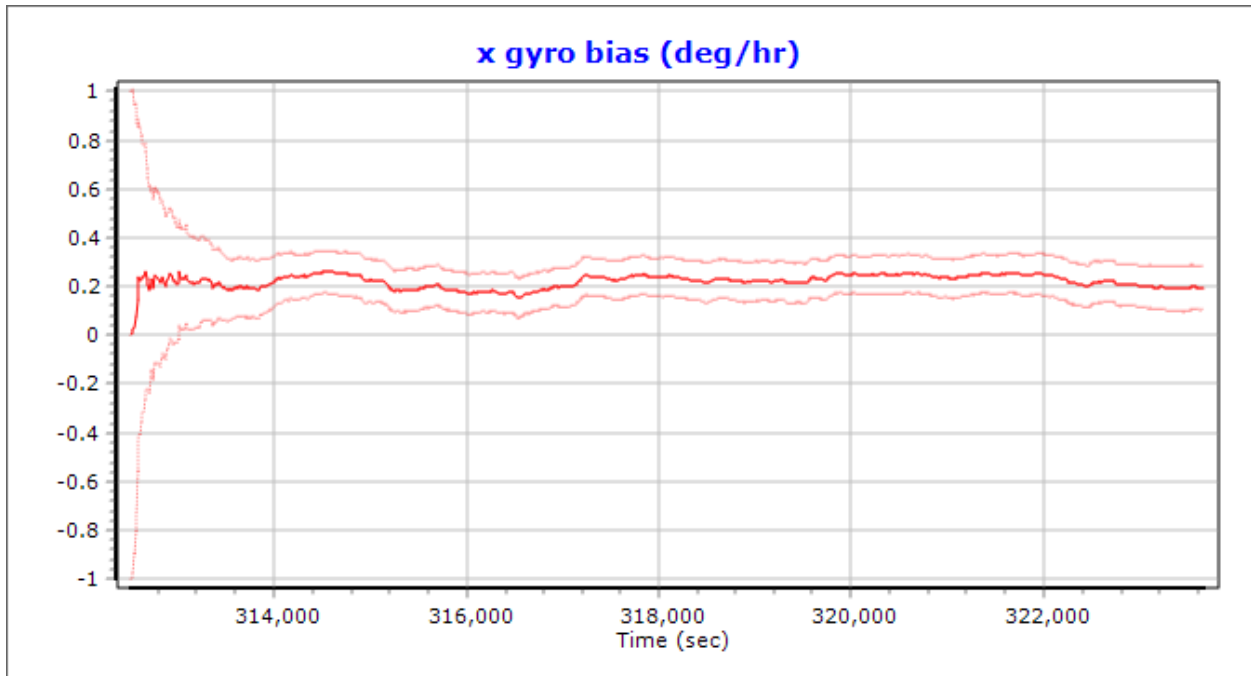
Last Epoch: 40.19

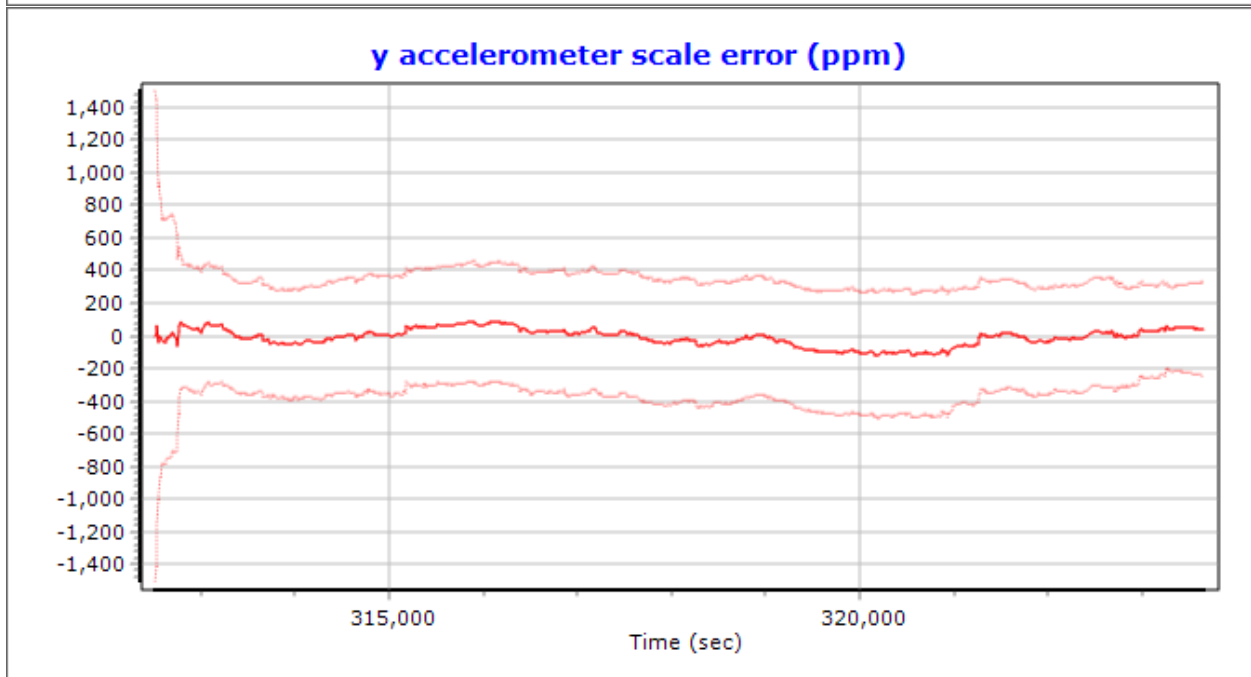
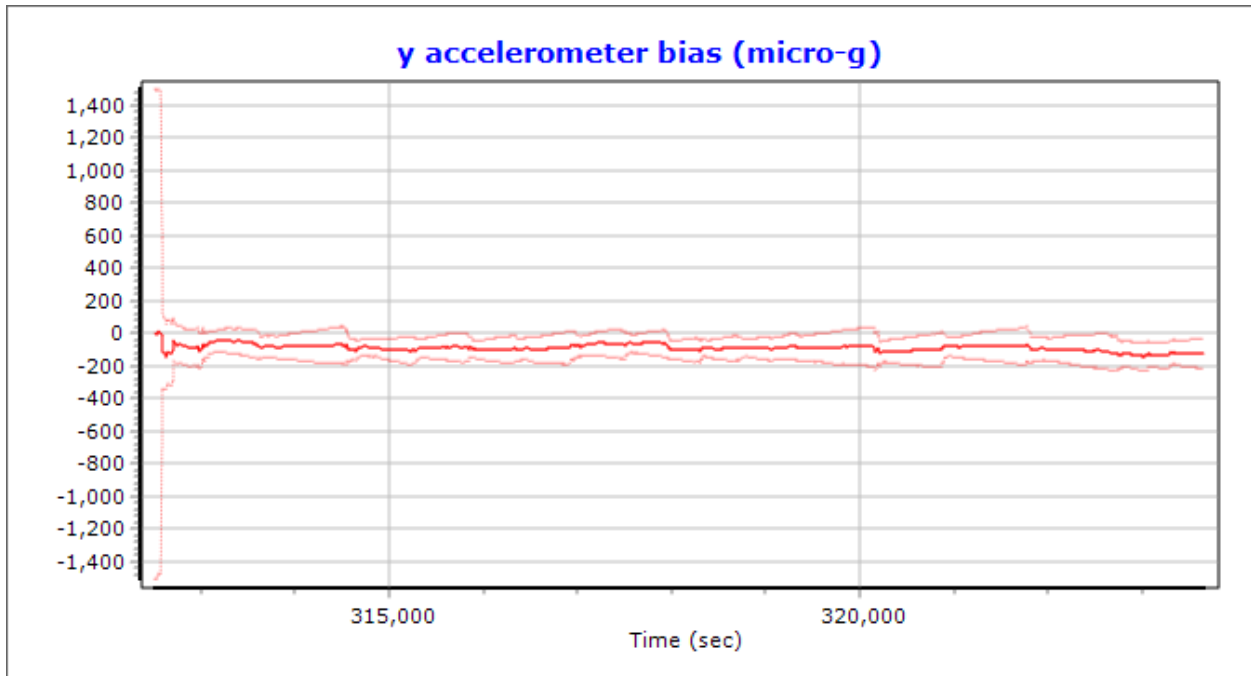
CORS Base Stations

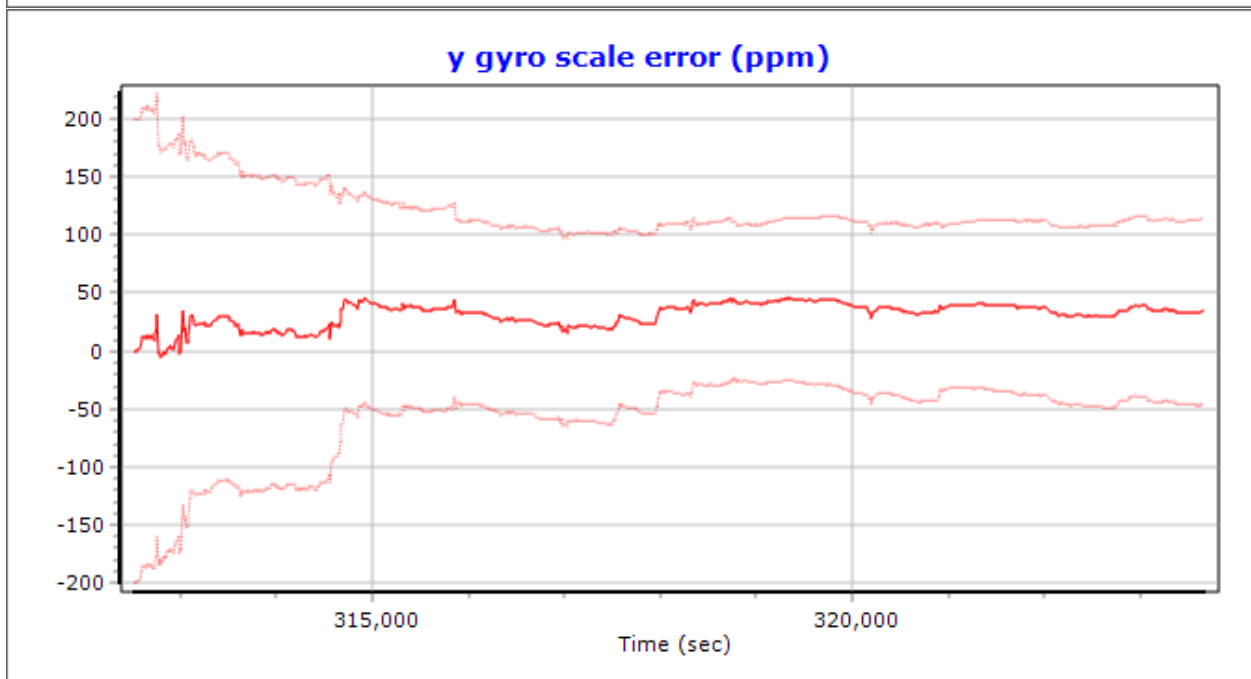
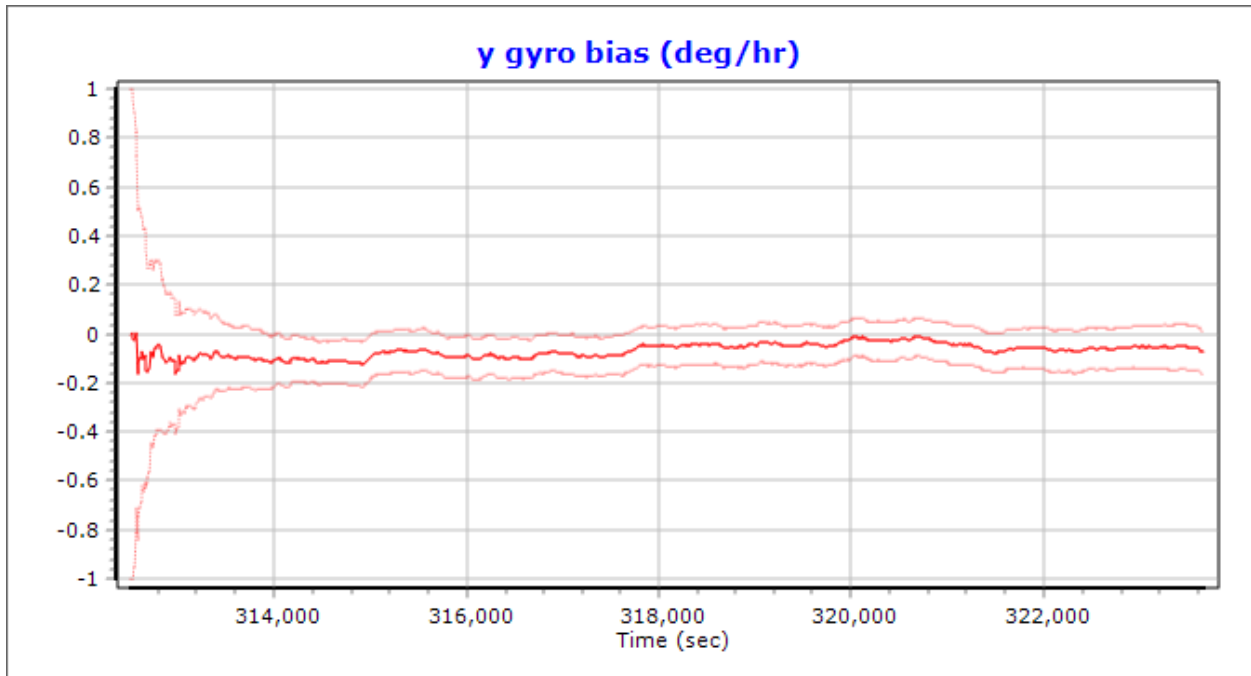
Station	Original (m)			Adjusted (m)		
	Latitude	Longitude	Altitude	Latitude	Longitude	Altitude
WVMF	N39°04'32.37392"	W78°55'57.02237"	312.279	N39°04'32.37381"	W78°55'57.02176"	312.269
ZDC1	N39°06'05.74453"	W77°32'33.88958"	79.595	N39°06'05.74460"	W77°32'33.88943"	79.61
WVNR	N38°53'44.53447"	W79°51'30.29459"	581.5	N38°53'44.53438"	W79°51'30.29472"	581.497
WVCV	N39°00'55.10521"	W79°27'25.03372"	967.96	N39°00'55.10445"	W79°27'25.03283"	967.959
WVBU	N39°20'16.85132"	W78°54'48.61088"	198.787	N39°20'16.85119"	W78°54'48.61094"	198.795
LOYY	N38°53'18.57664"	W78°29'56.96654"	220.904	N38°53'18.57664"	W78°29'56.96654"	220.904
LOYQ	N39°38'02.62366"	W77°42'51.12060"	127.23	N39°38'02.62374"	W77°42'51.12061"	127.214
LOYJ	N38°28'20.92225"	W78°00'36.16911"	103.853	N38°28'20.92228"	W78°00'36.16899"	103.857
LOYI	N38°01'59.45428"	W78°30'42.43165"	154.965	N38°01'59.45429"	W78°30'42.43174"	154.965
LOYC	N39°07'12.57576"	W78°12'02.63189"	201.807	N39°07'12.57568"	W78°12'02.63200"	201.831
LOYA	N38°25'33.92921"	W78°53'21.79773"	363.919	N38°25'33.92921"	W78°53'21.79793"	363.96
ALLG	N39°39'13.91863"	W78°43'50.52712"	174.48	N39°39'13.91861"	W78°43'50.52741"	174.495

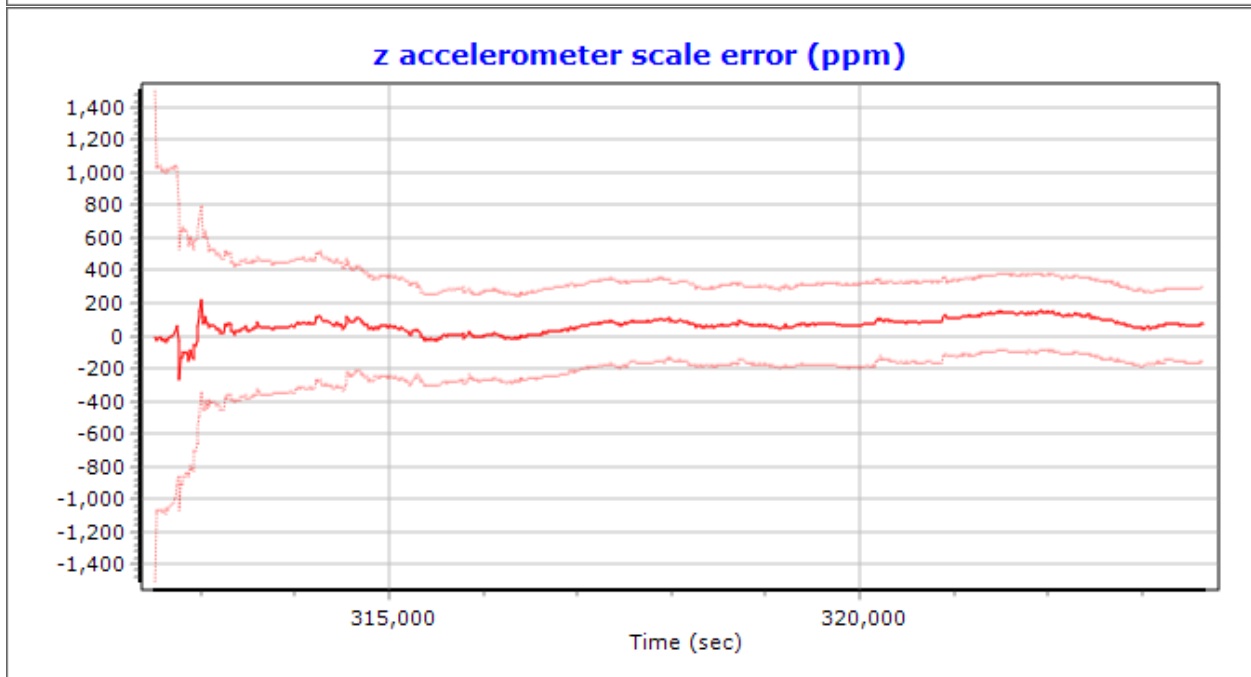
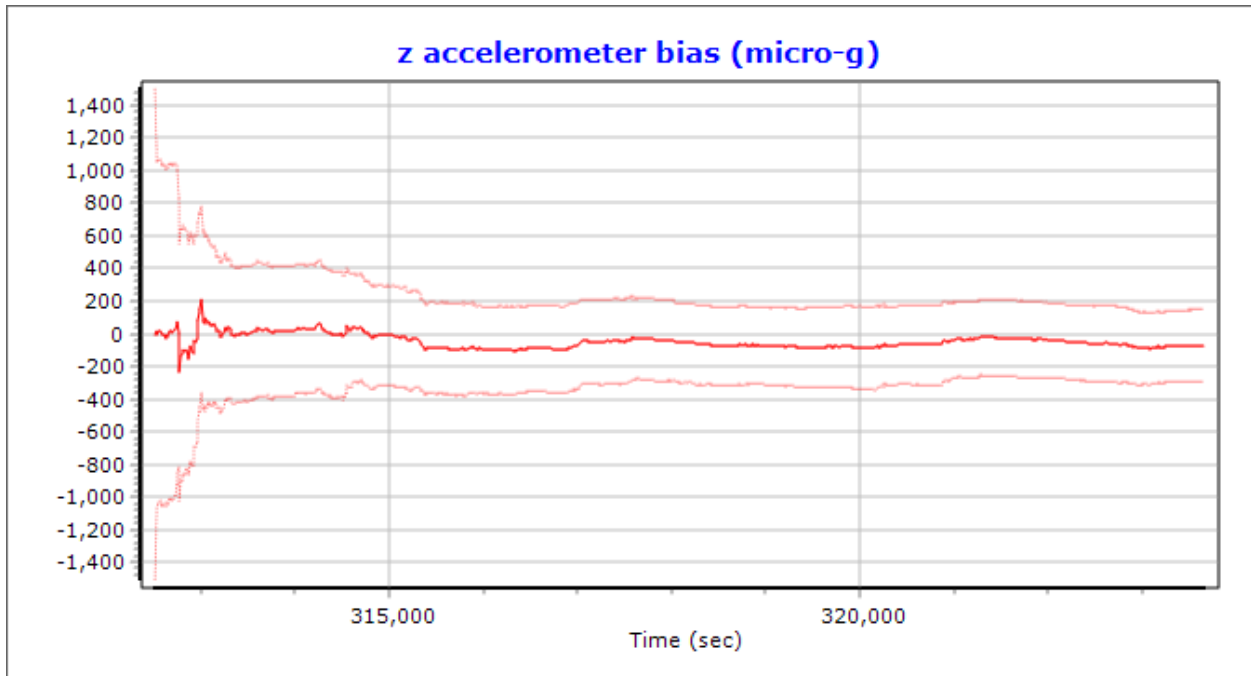


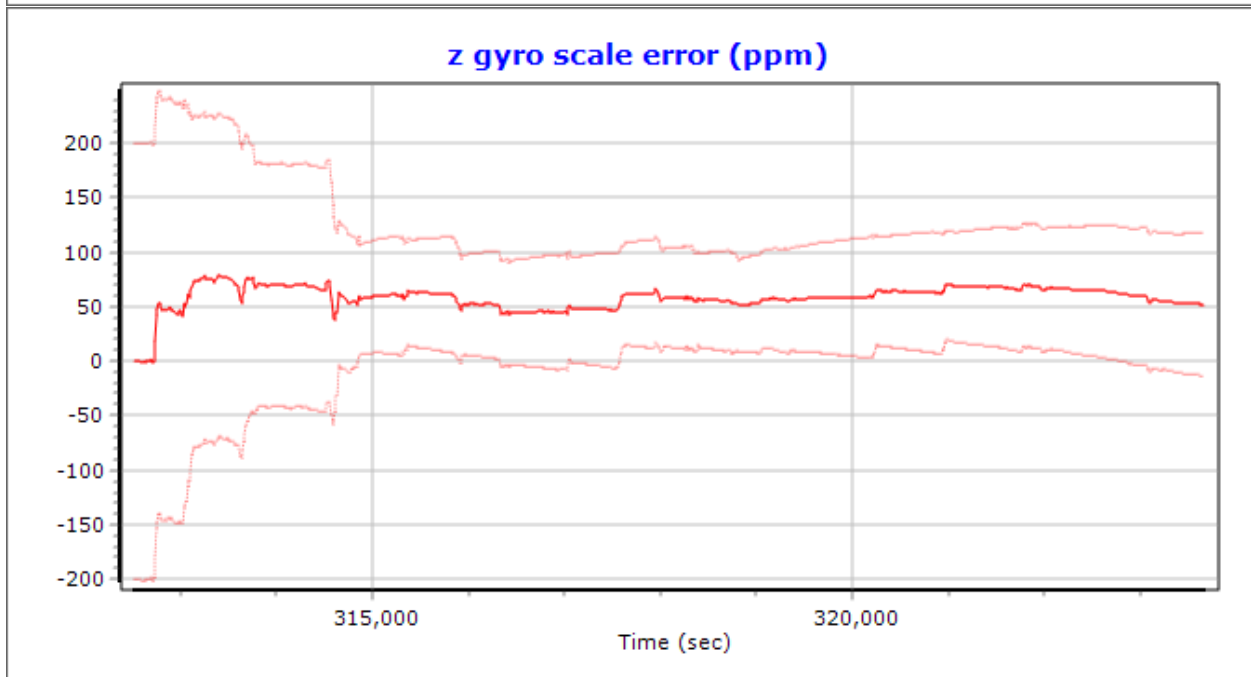
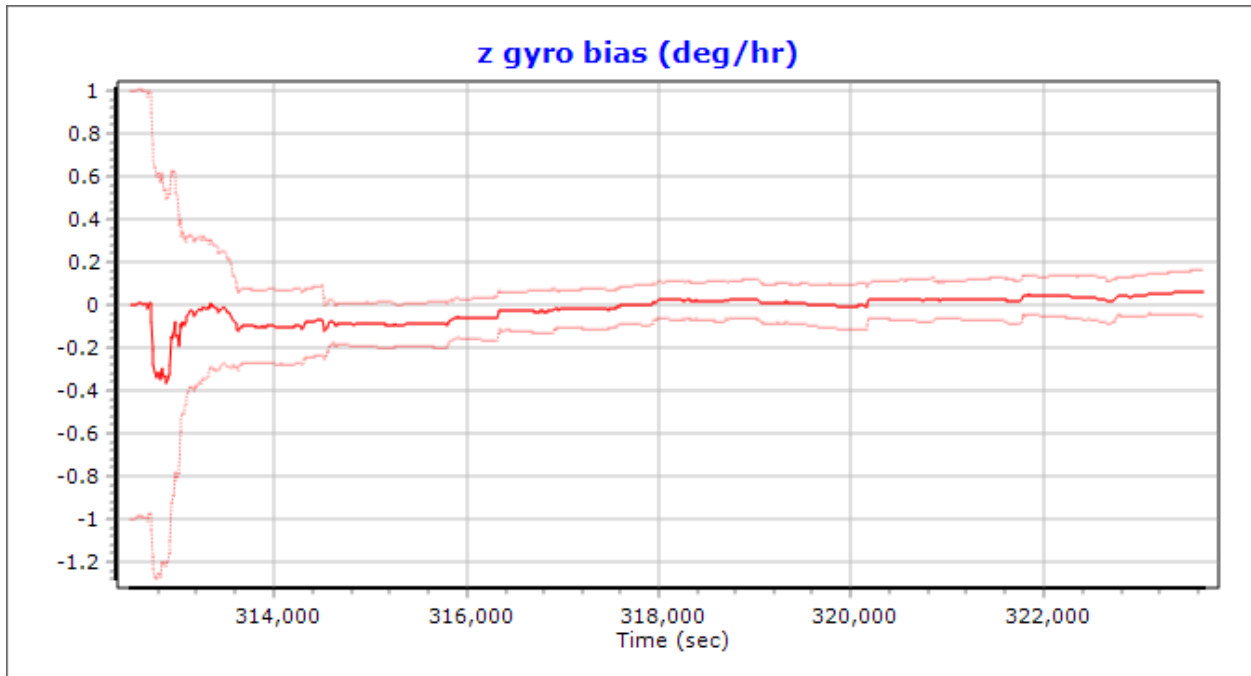


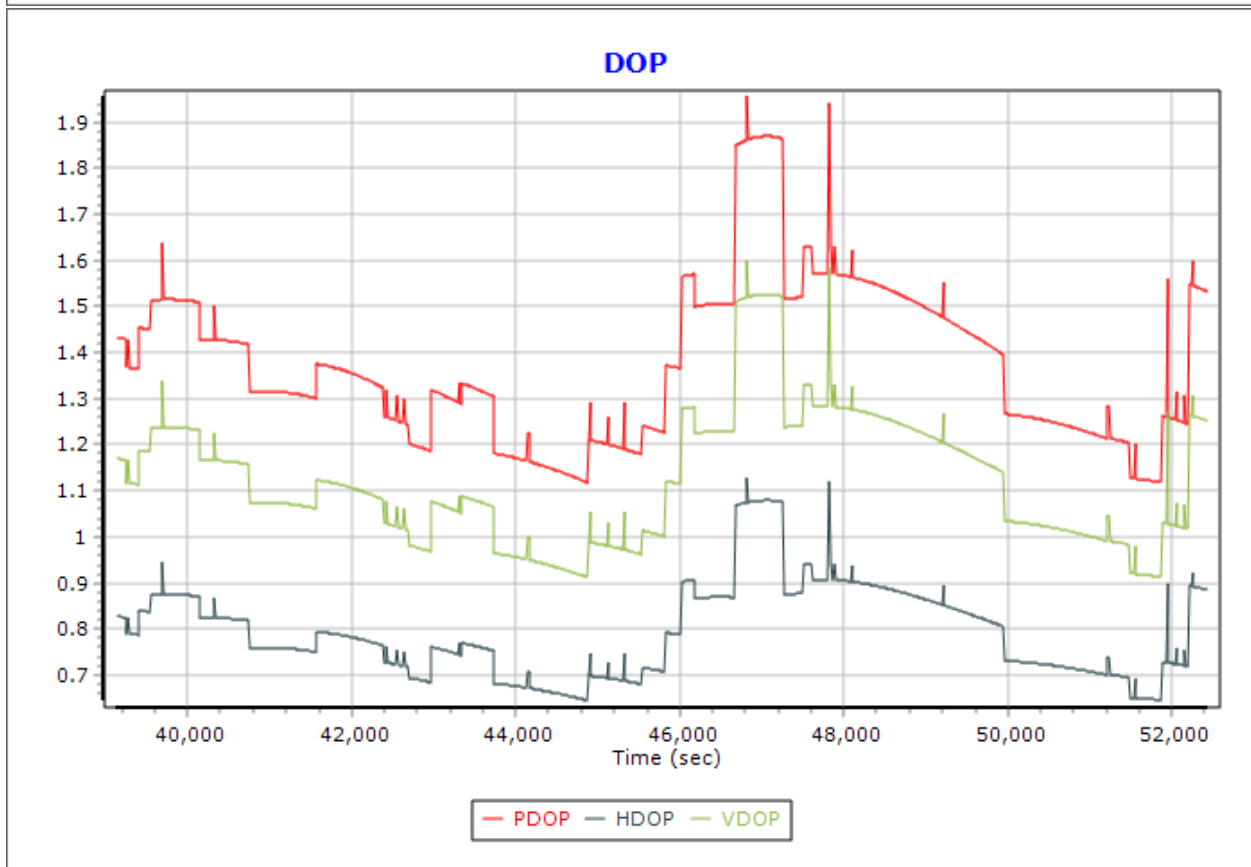
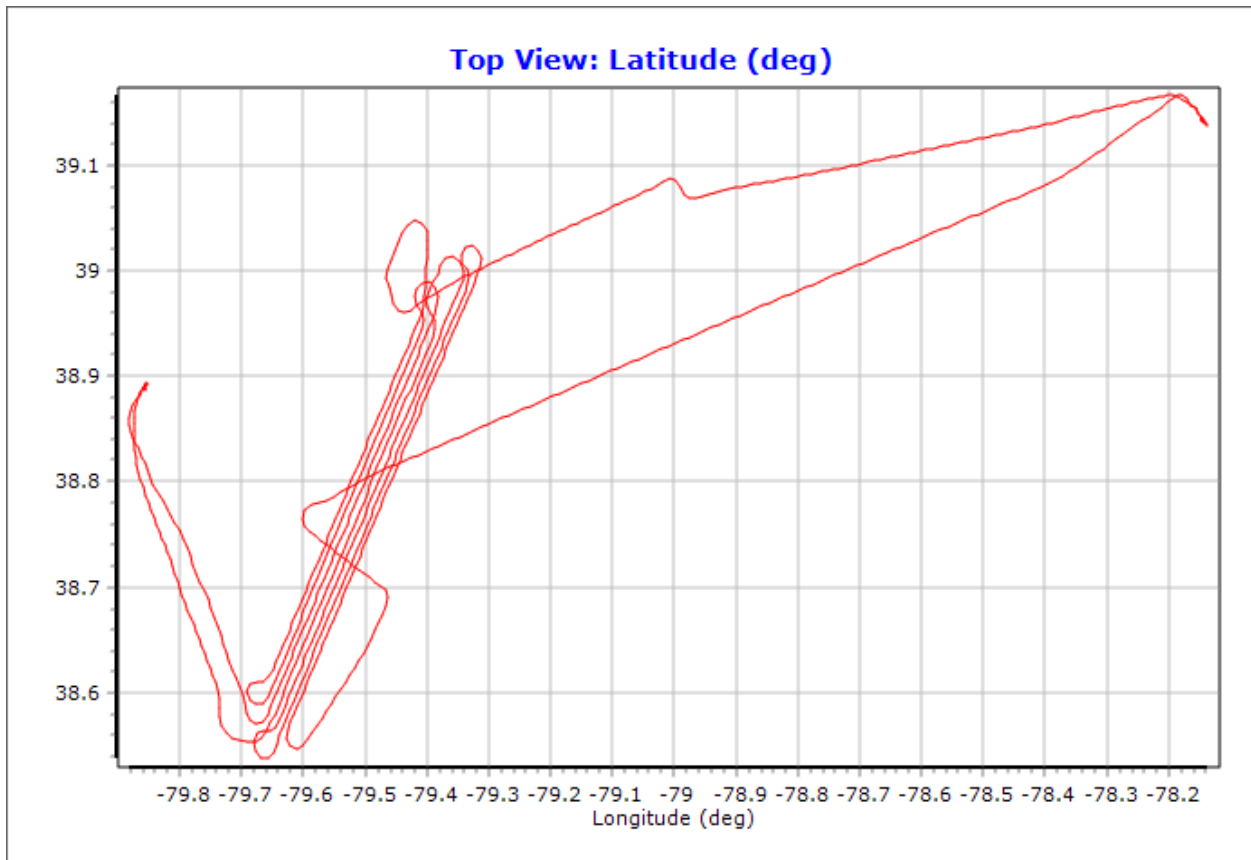


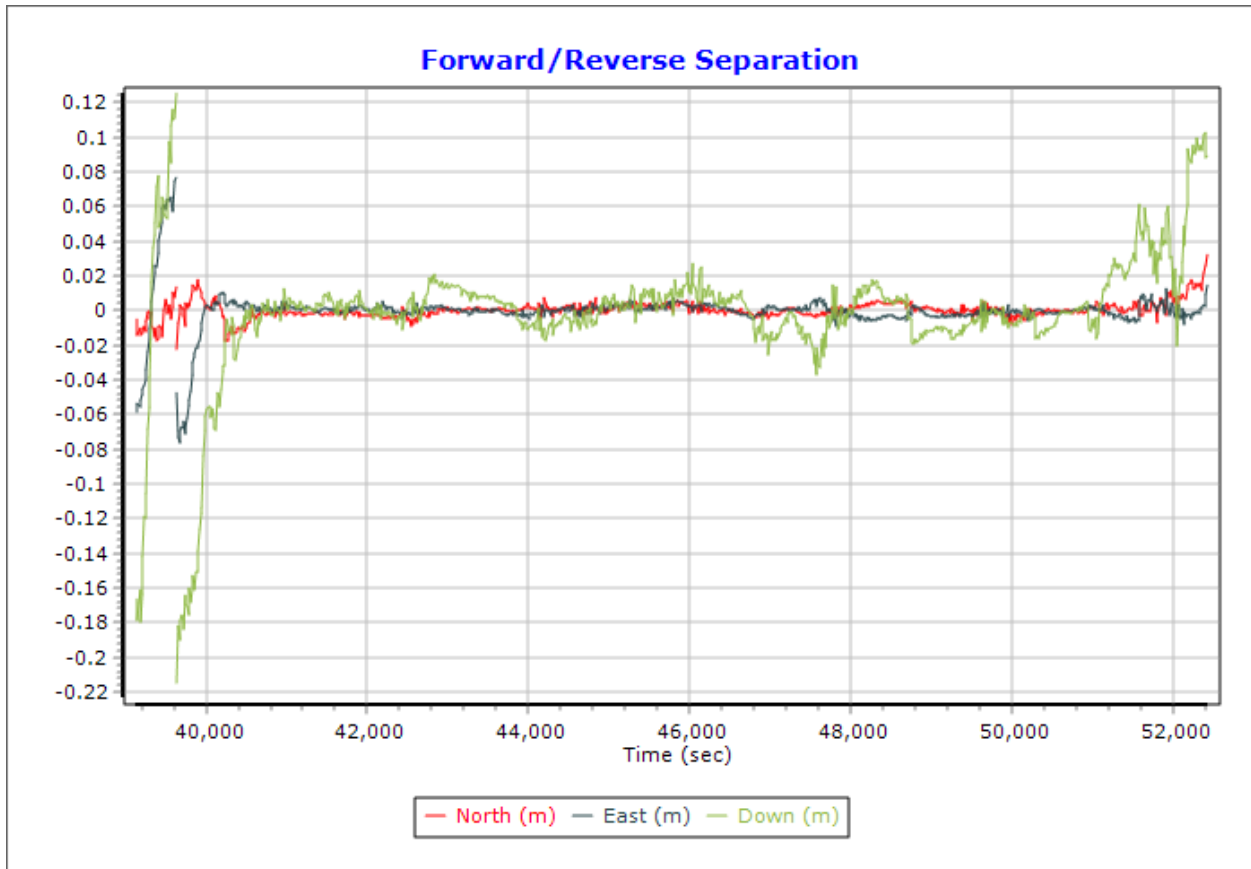




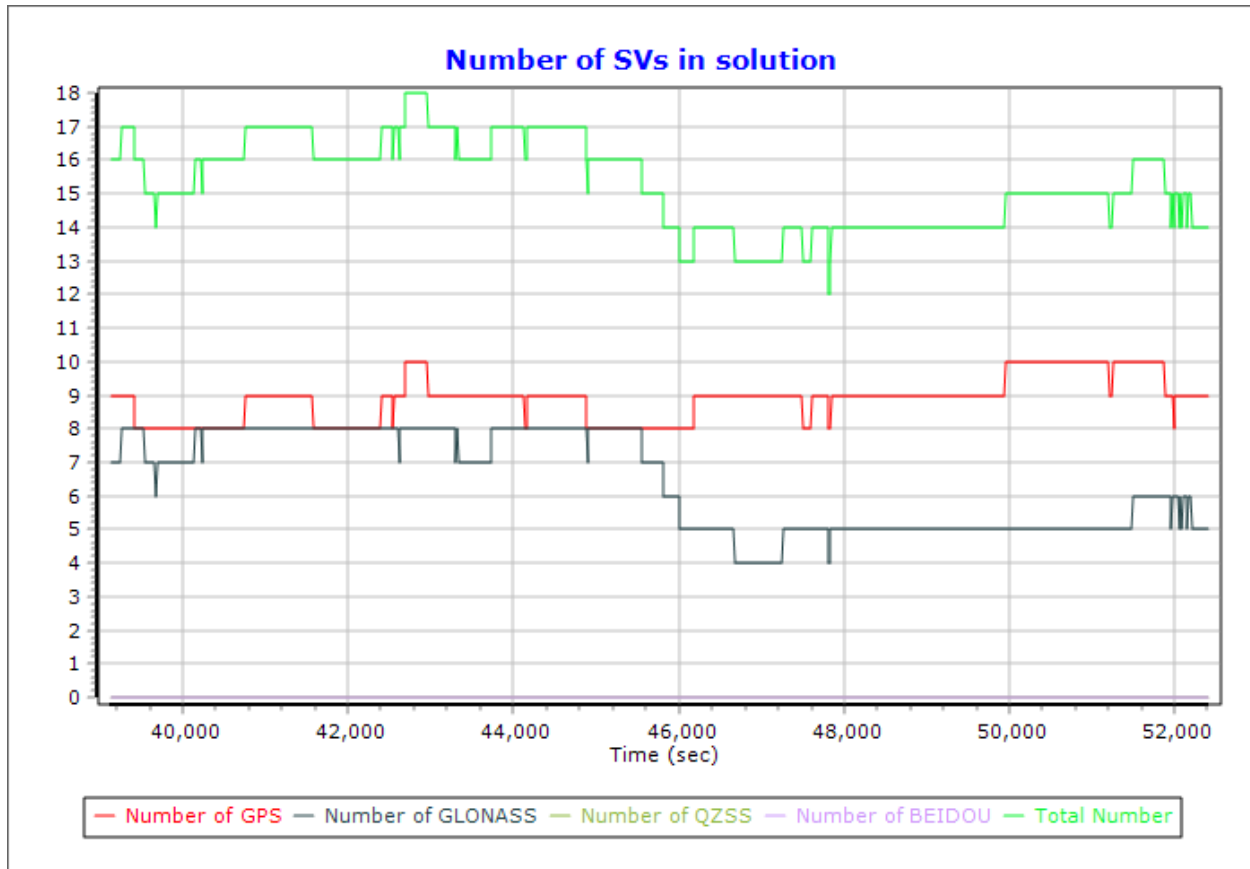












### Processing Summary Information

Program: POSPac MMS

Version: 7.2.5934.15637

Project: \\sa\data\216027\20170409\_WV\_A\05\_INS-GPS\_PROC\01\_POS\20170409\_WV\_A.pospac

Solution Type: IN-Fusion SmartBase

Fixed: 13310 (99.99%)

Float: 0 (0.0%)

No Solution: 1 (0.01%)

Number of Epochs:

Total in RAW file: 13337

No processed position: 27

Fwd/Rev Separation RMS Values (m):

East: 0.013

North: 0.005

Height: 0.038

Fwd/Rev Sep. RMS for 25%-75% weighting (m): 6668 occurrences

East: 0.003

North: 0.003

Height: 0.011

Position Standard Deviation Percentages:

0.00 - 0.10 m: 99.98 %

0.10 - 0.30 m: 0.02 %

0.30 - 1.00 m: 0.0 %

1.00 - 5.00 m: 0.0 %

5.00 m + over: 0.0 %

Percentages of epochs with DD\_DOP over 10.00: 0 %

DOP over Tol: 1.38 %

Baseline Distances (km):

Maximum: 101.32

Minimum: 1.24

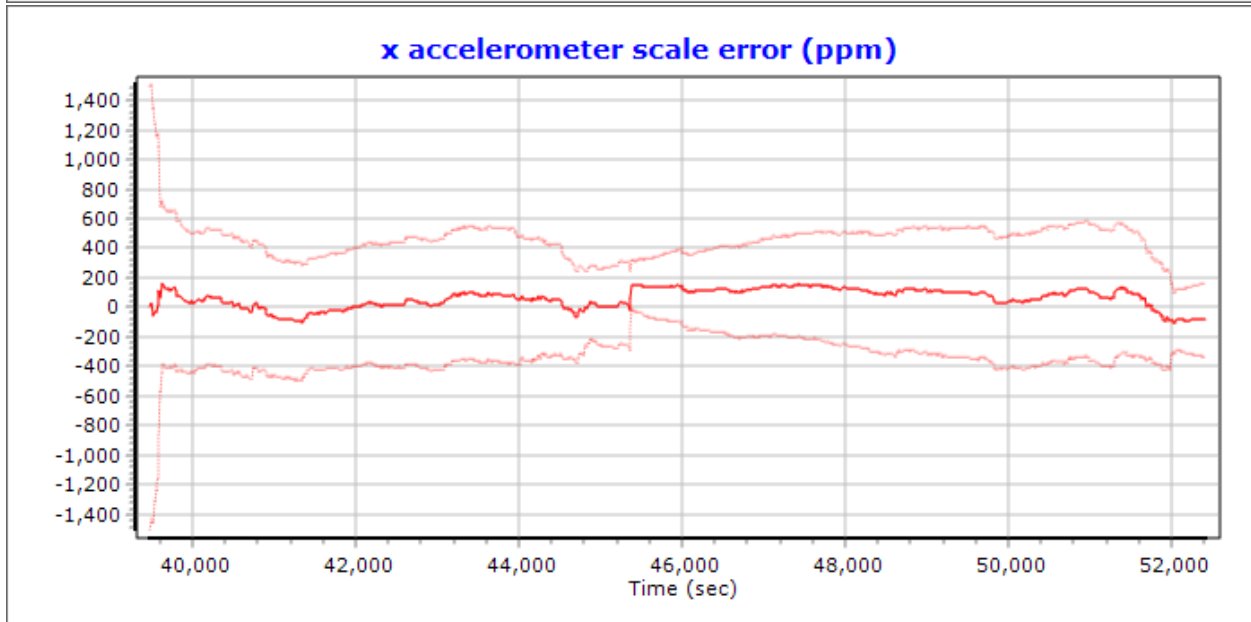
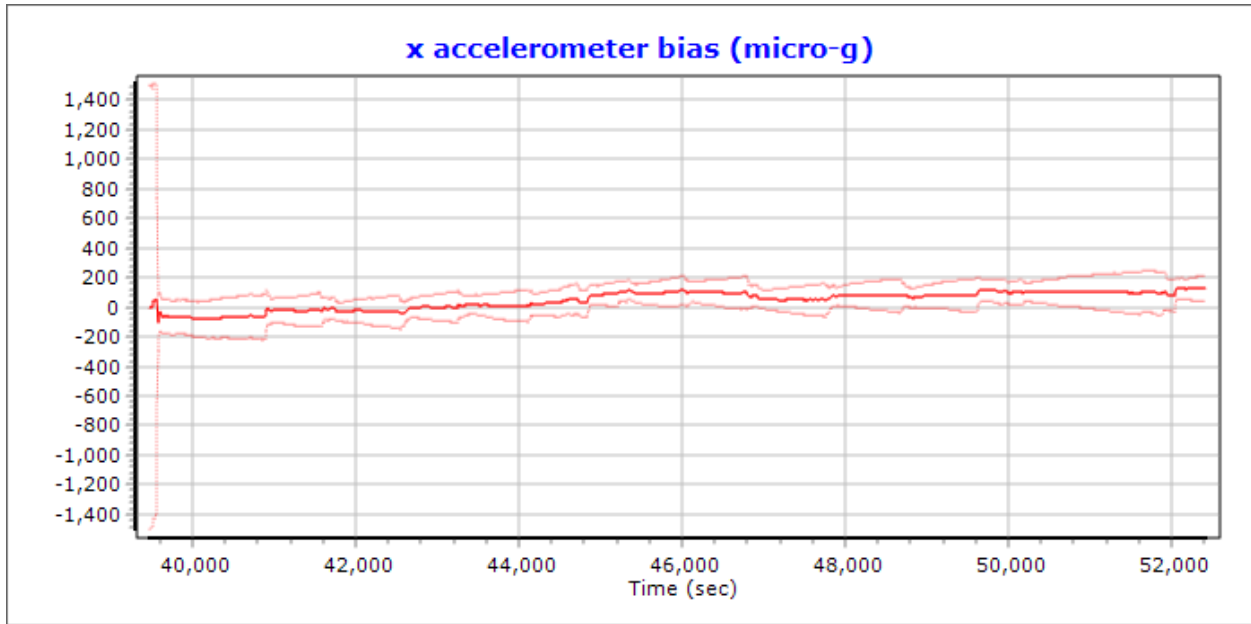
Average: 41.90

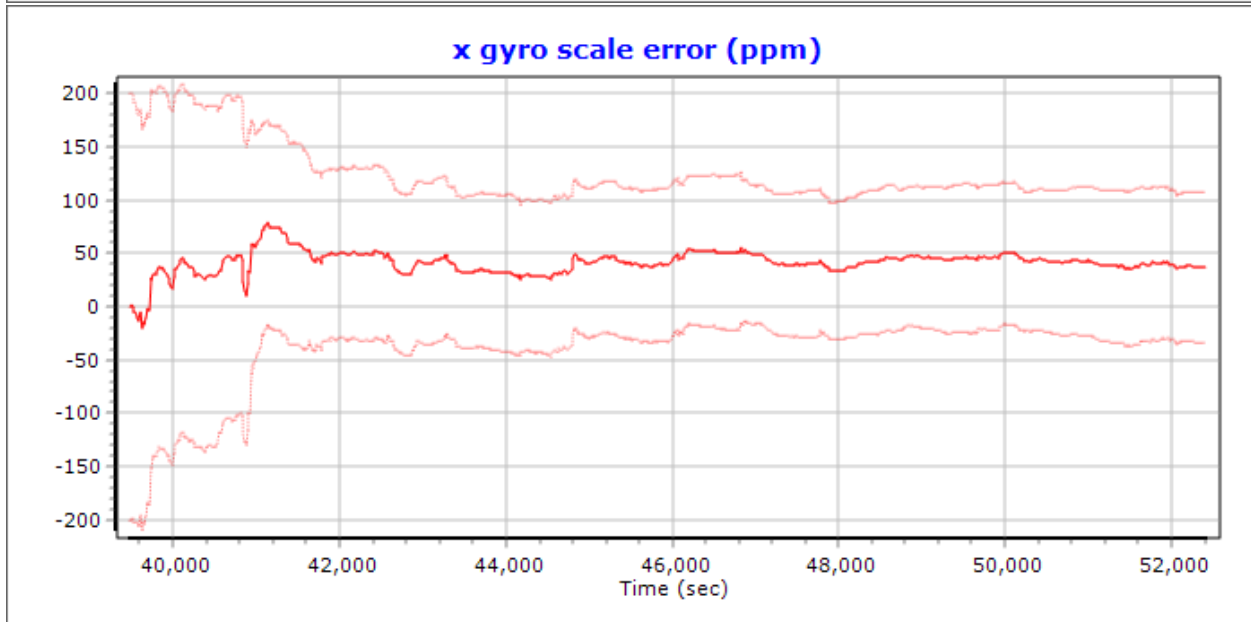
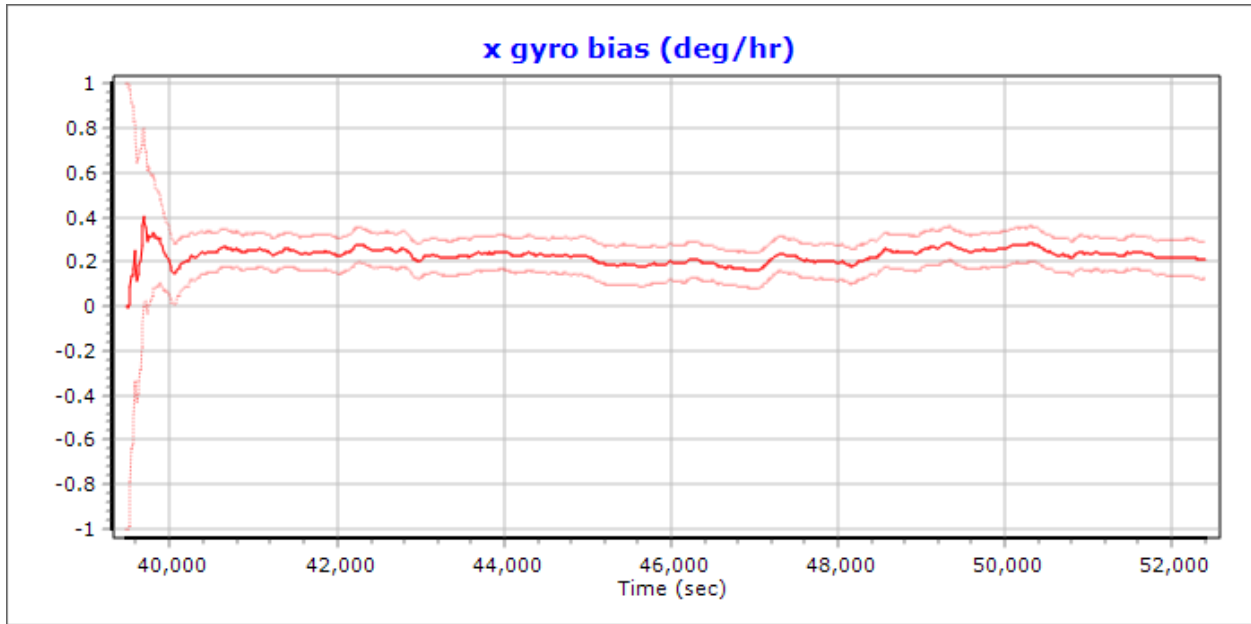
First Epoch: 100.70

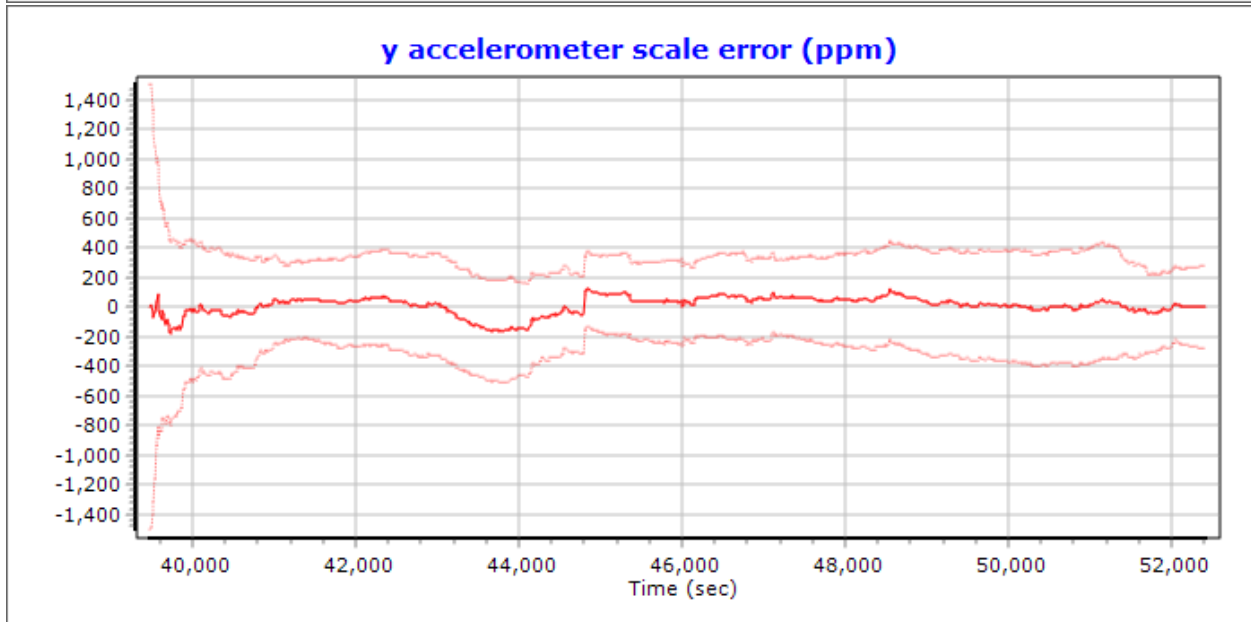
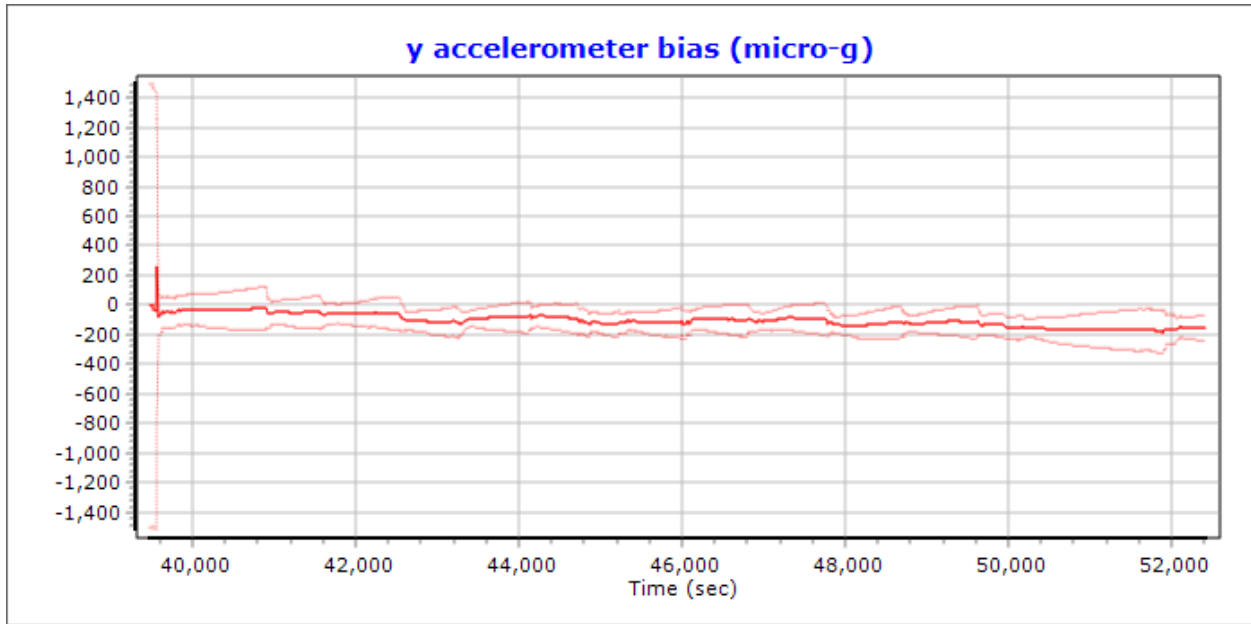
Last Epoch: 100.71

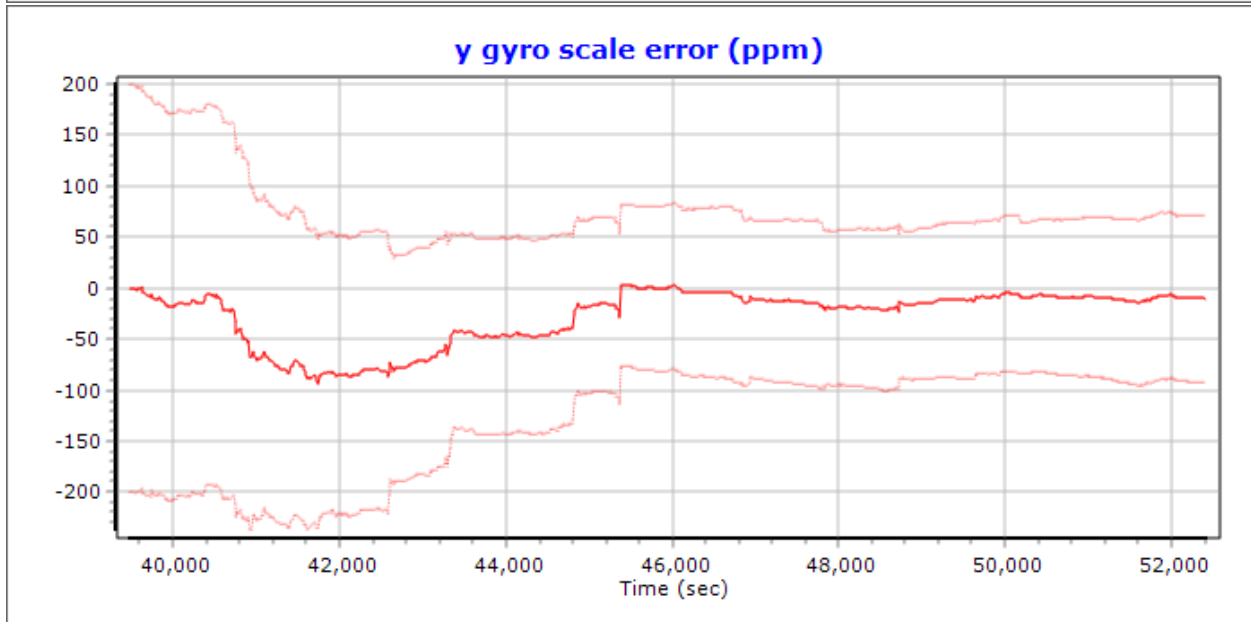
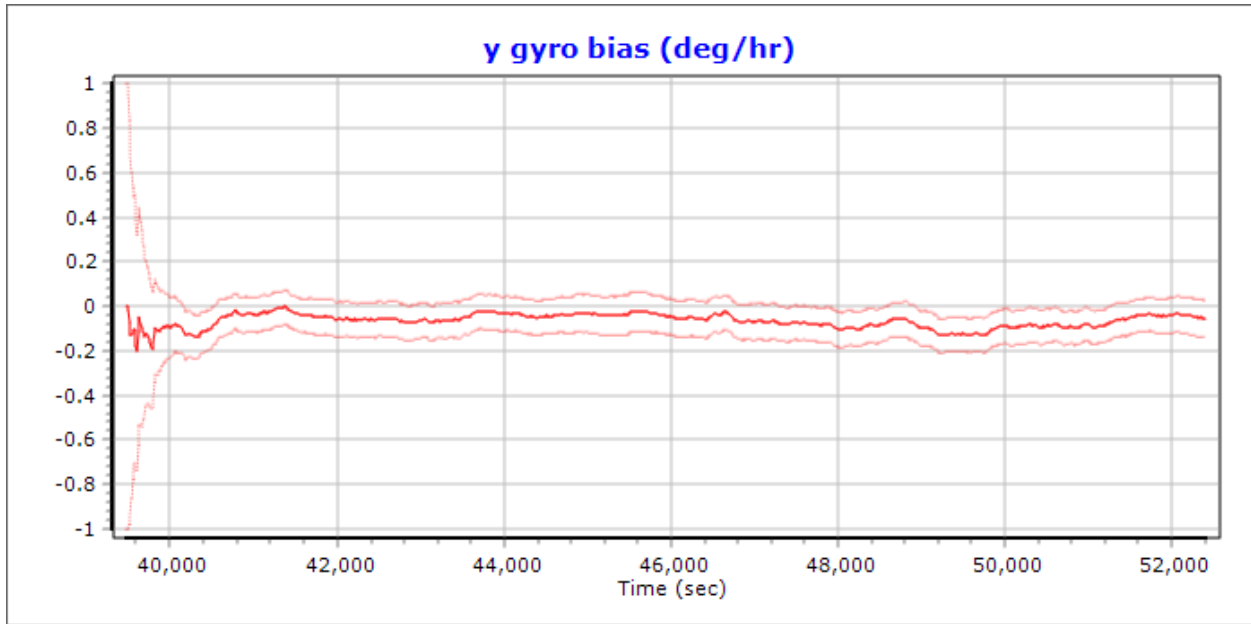
### CORS Base Stations

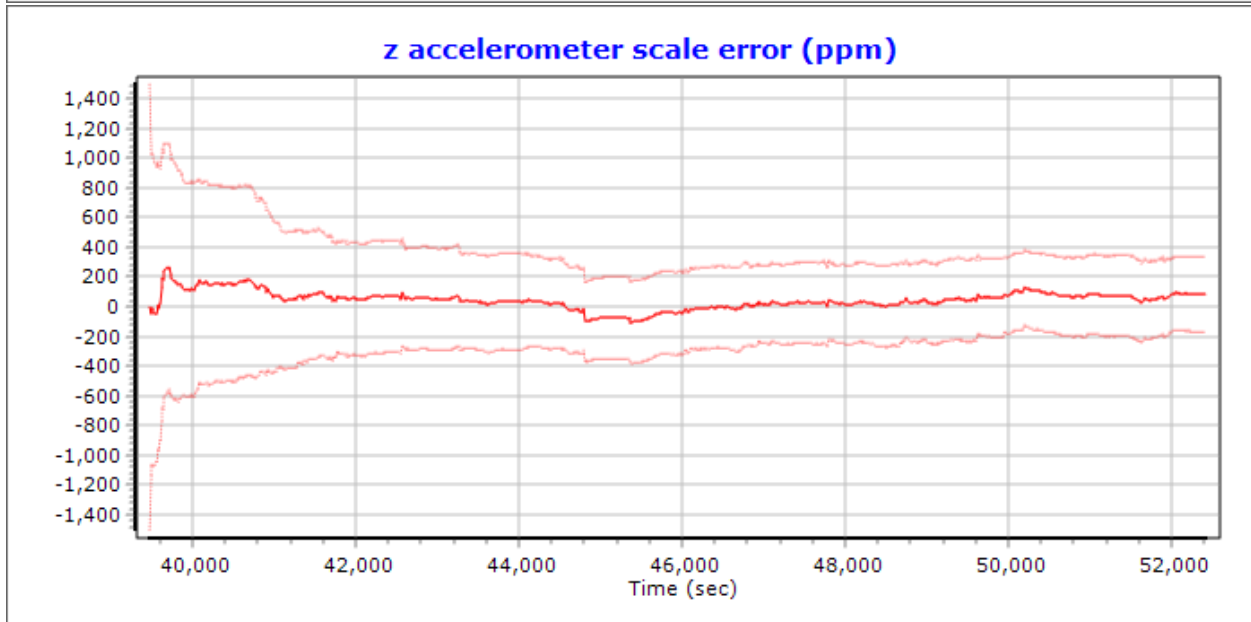
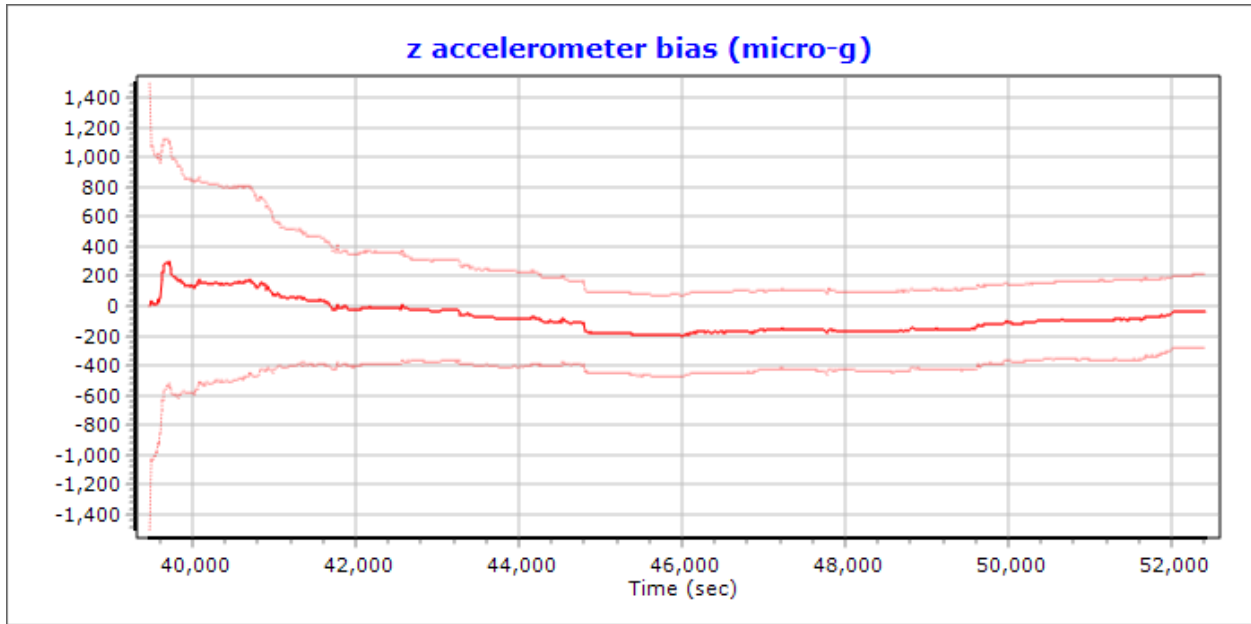
Station	Original (m)			Adjusted (m)		
	Latitude	Longitude	Altitude	Latitude	Longitude	Altitude
WVBR	N39°18'28.91357"	W80°16'38.64473"	268.993	N39°18'28.91400"	W80°16'38.64532"	269
WVGB	N38°25'48.45401"	W79°49'01.31942"	811.181	N38°25'48.45442"	W79°49'01.32064"	811.179
WVCV	N39°00'55.10521"	W79°27'25.03372"	967.96	N39°00'55.10521"	W79°27'25.03372"	967.96
WVBU	N39°20'16.85132"	W78°54'48.61088"	198.786	N39°20'16.85200"	W78°54'48.61204"	198.787
LOYY	N38°53'18.57664"	W78°29'56.96655"	220.904	N38°53'18.57751"	W78°29'56.96757"	220.907
LOYI	N38°01'59.45428"	W78°30'42.43166"	154.965	N38°01'59.45502"	W78°30'42.43253"	154.96
LOYC	N39°07'12.57576"	W78°12'02.63190"	201.807	N39°07'12.57639"	W78°12'02.63301"	201.838
LOYA	N38°25'33.92921"	W78°53'21.79774"	363.919	N38°25'33.92993"	W78°53'21.79889"	363.965
ALLG	N39°39'13.91863"	W78°43'50.52712"	174.48	N39°39'13.91935"	W78°43'50.52810"	174.499



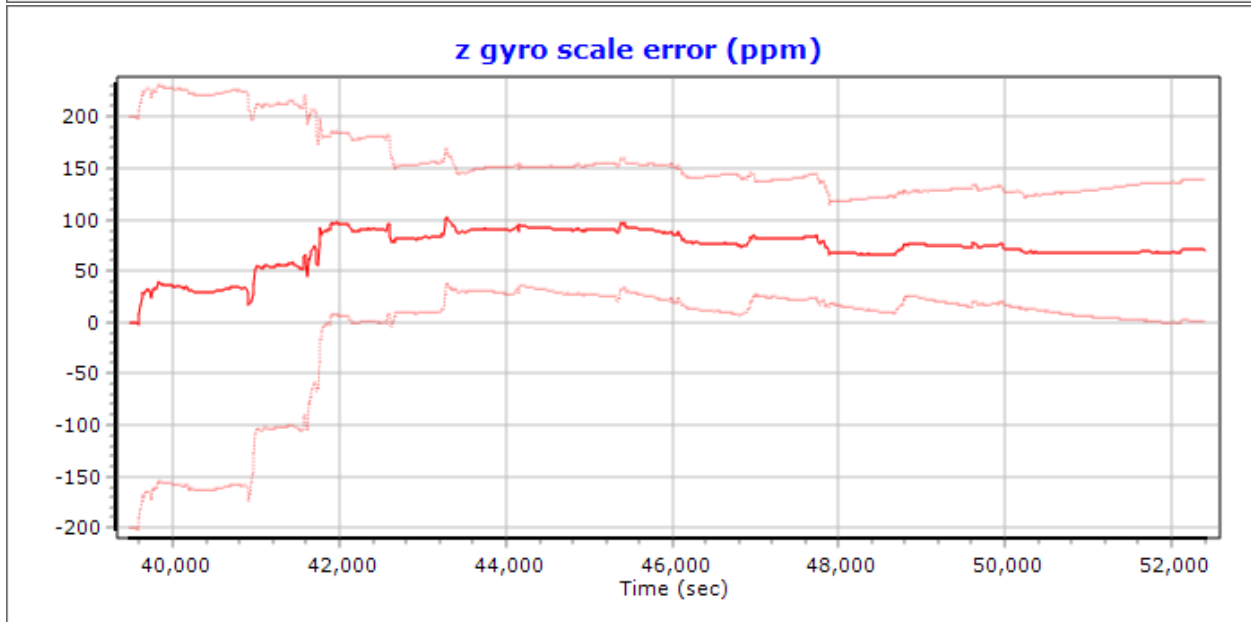
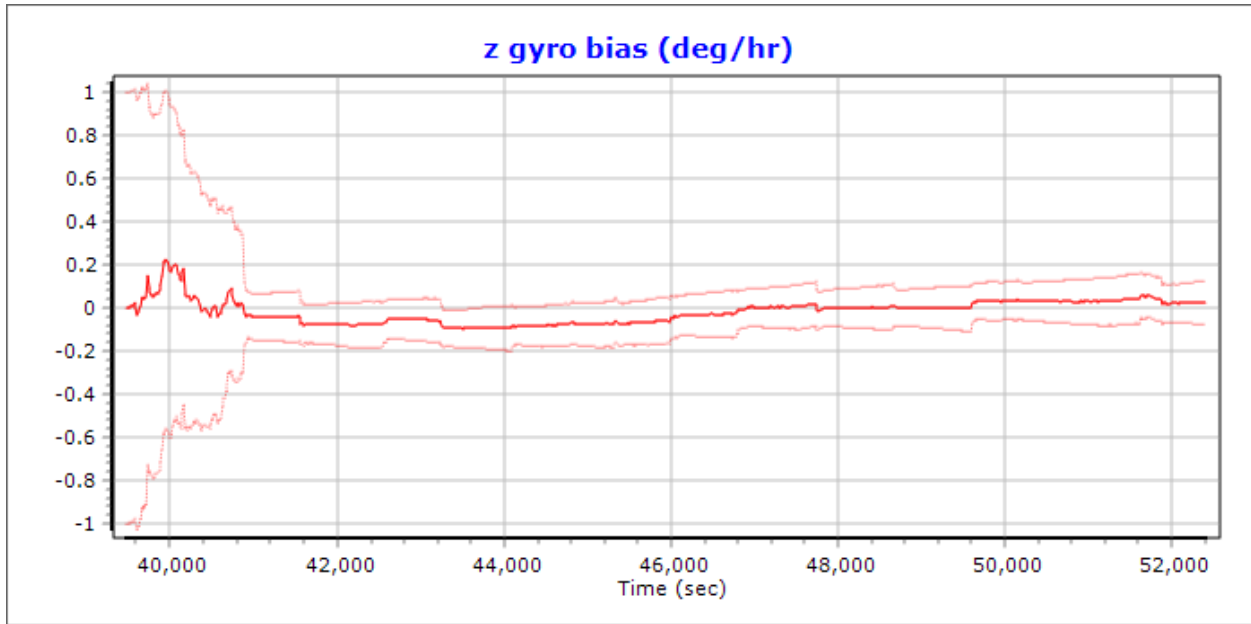


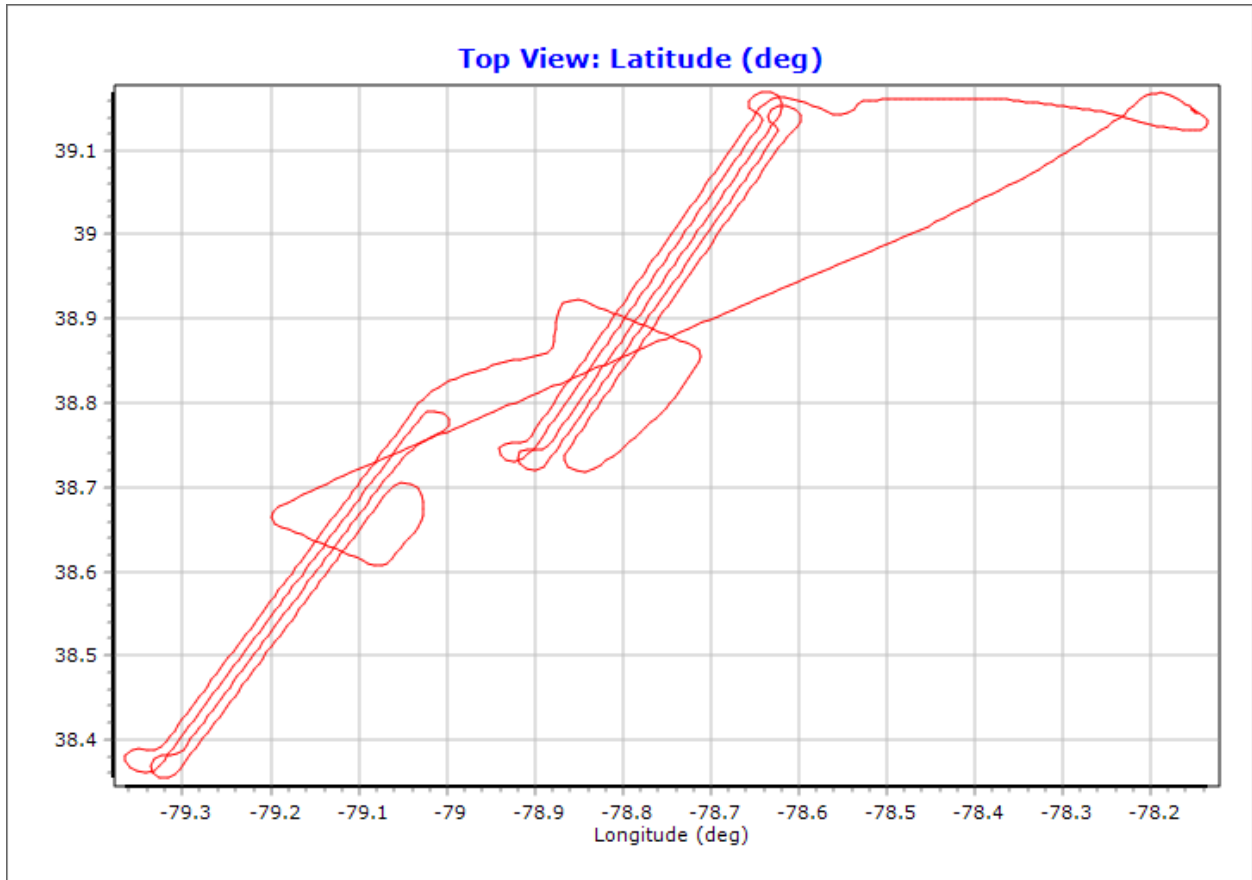


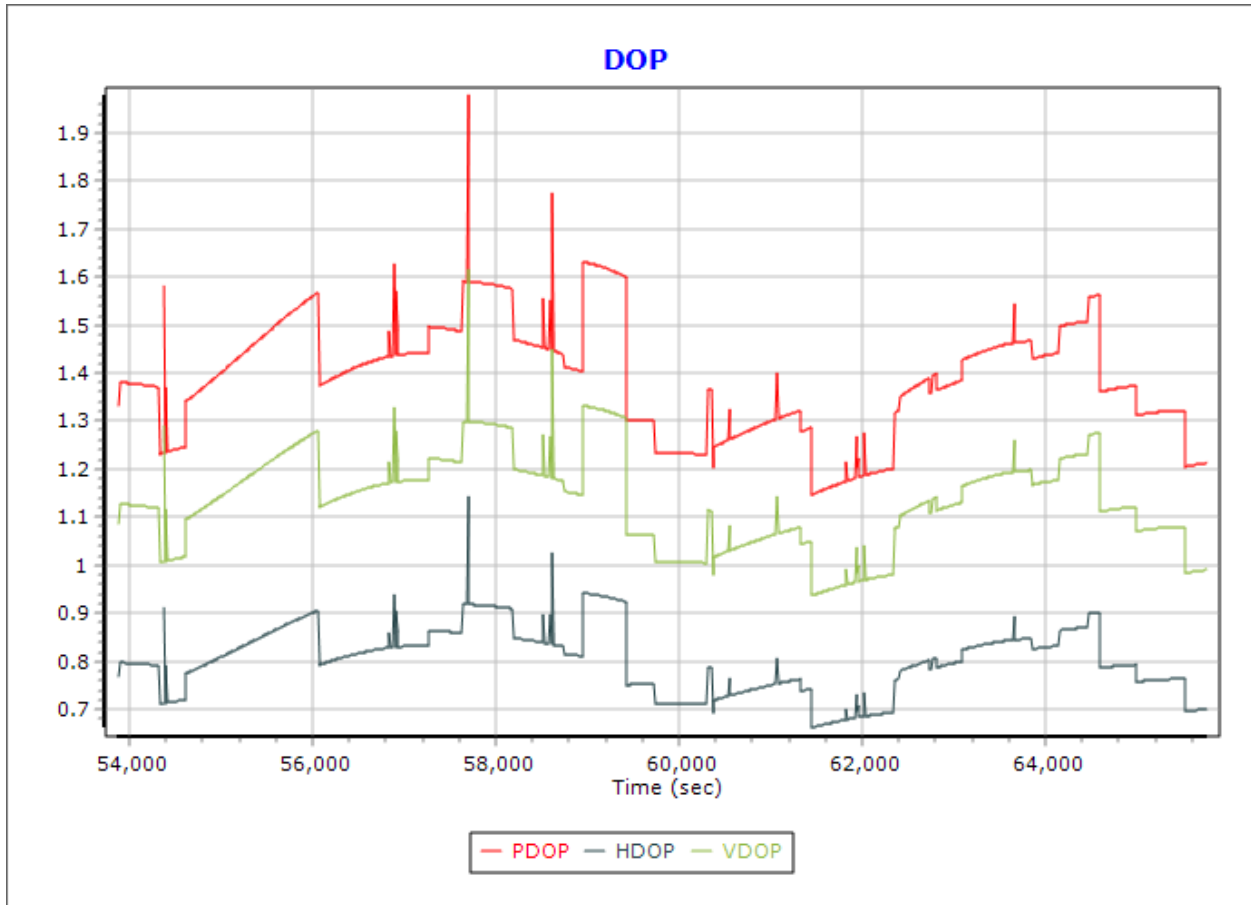


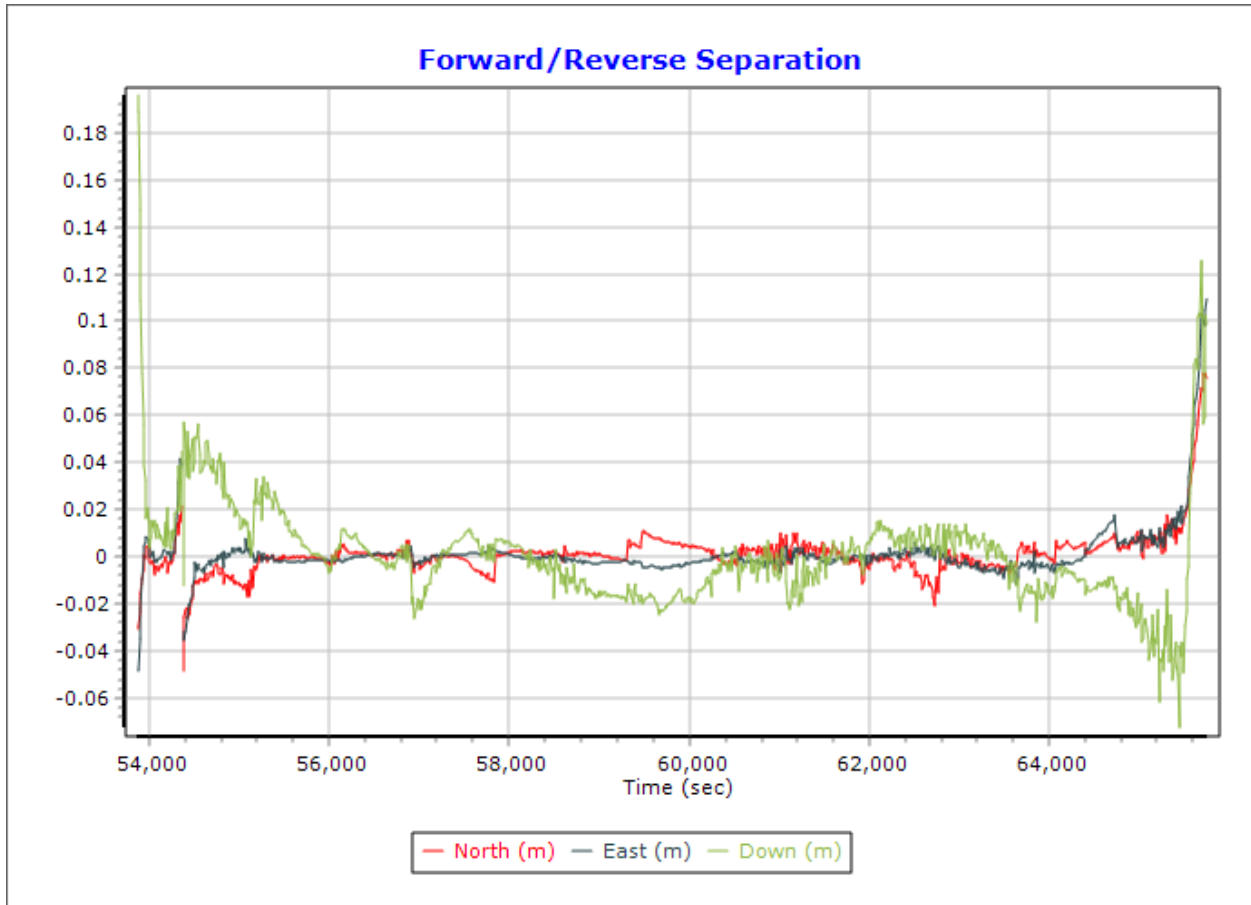


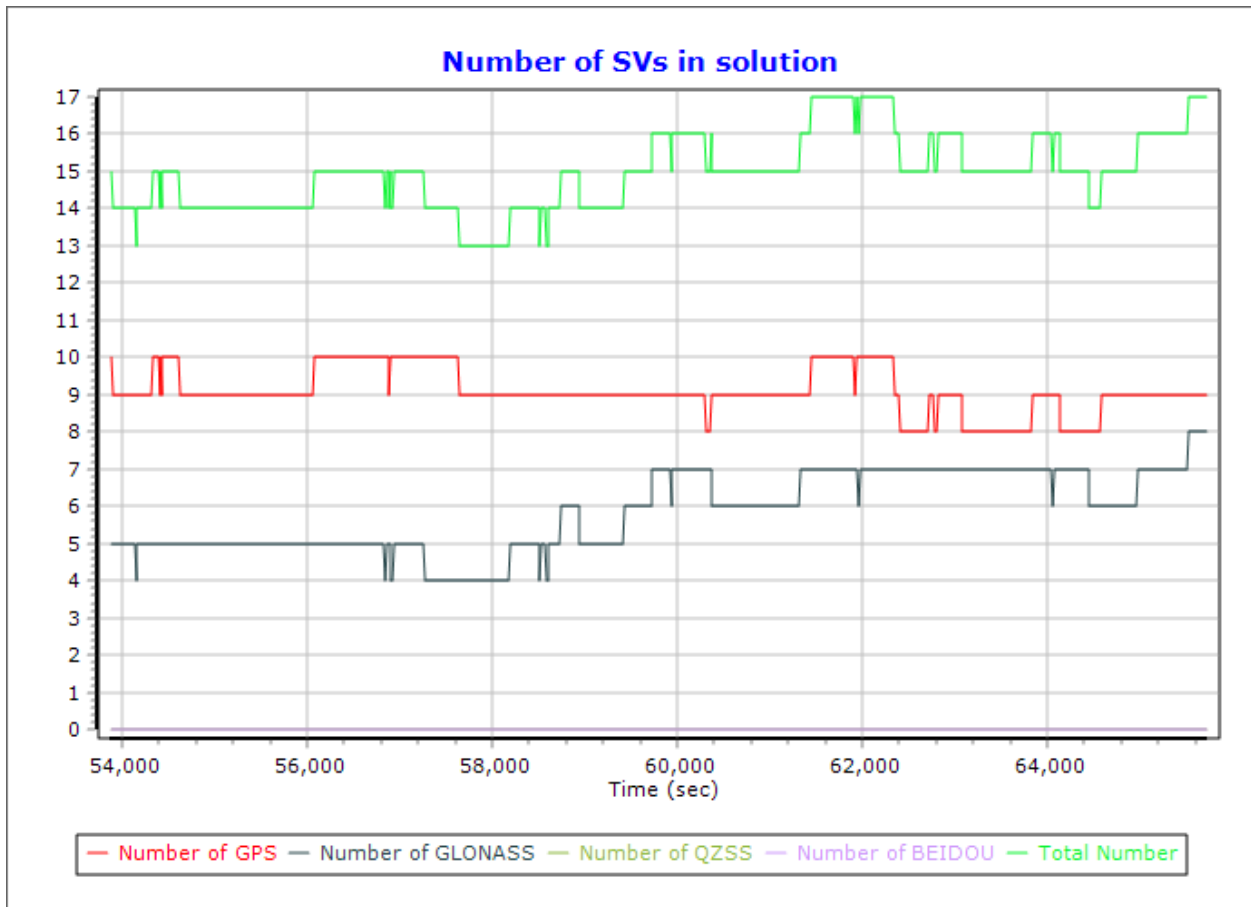












### Processing Summary Information

Program: POSPac MMS

Version: 8.0.6264.23143

Project: \\sa\data\216027\20170409\_WV\_B\05\_INS-GPS\_PROC\01\_POS\20170409\_WV\_B.pospac

Solution Type: IN-Fusion SmartBase

Fixed: 11887 (99.99%)

Float: 0 (0.0%)

No Solution: 1 (0.01%)

Number of Epochs:

Total in RAW file: 11906

No processed position: 19

Fwd/Rev Separation RMS Values (m):

East: 0.013

North: 0.010

Height: 0.023

Fwd/Rev Sep. RMS for 25%-75% weighting (m): 5952 occurrences

East: 0.002

North: 0.005

Height: 0.011

Position Standard Deviation Percentages:

0.00 - 0.10 m: 99.986 %

0.10 - 0.30 m: 0.014 %

0.30 - 1.00 m: 0.0 %

1.00 - 5.00 m: 0.0 %

5.00 m + over: 0.0 %

Percentages of epochs with DD\_DOP over 10.00: 0 %

DOP over Tol: 1.38 %

Baseline Distances (km):

Maximum: 72.54

Minimum: 0.27

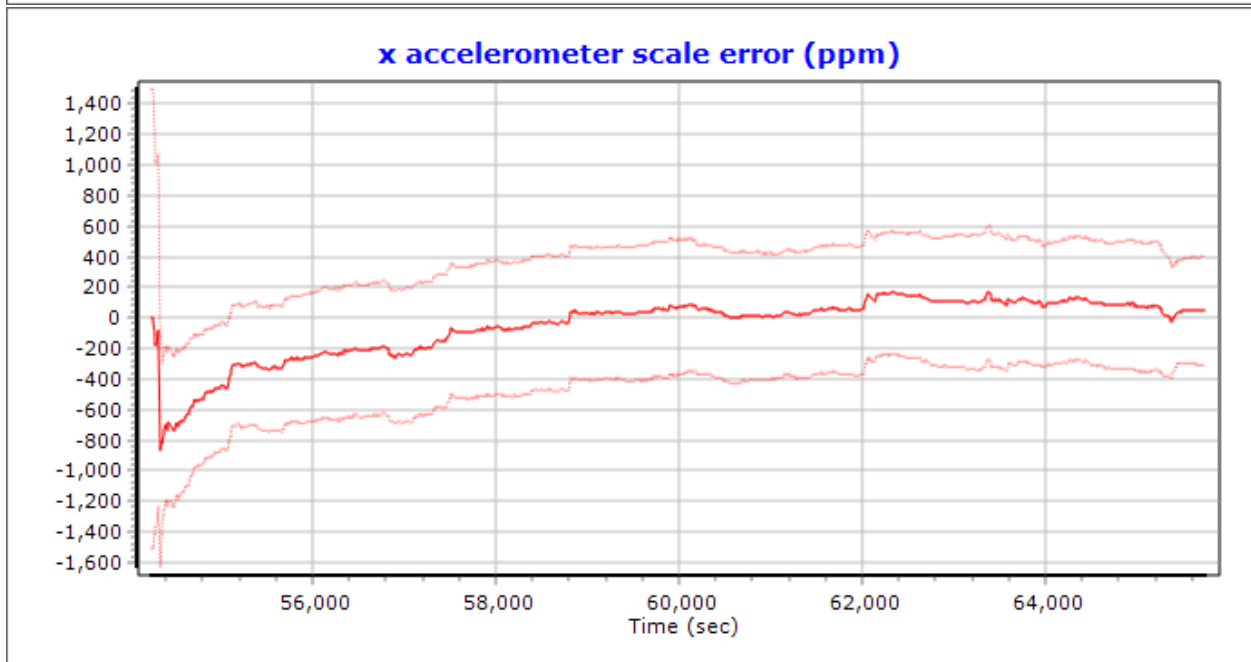
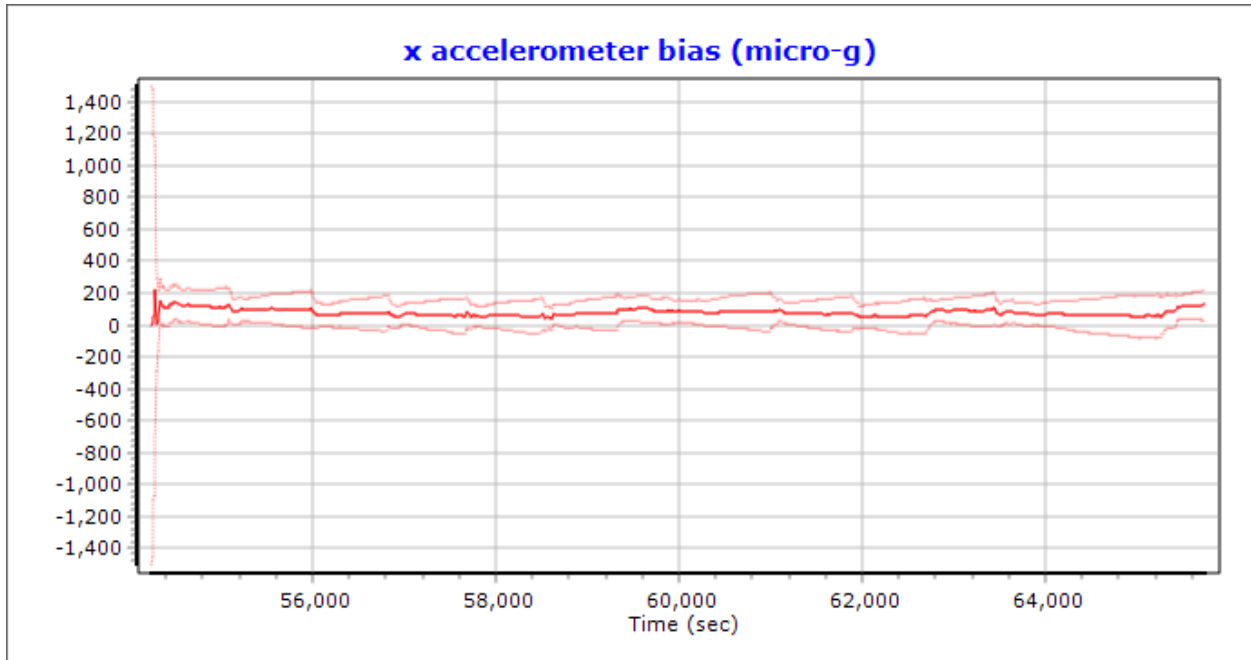
Average: 32.42

First Epoch: 65.33

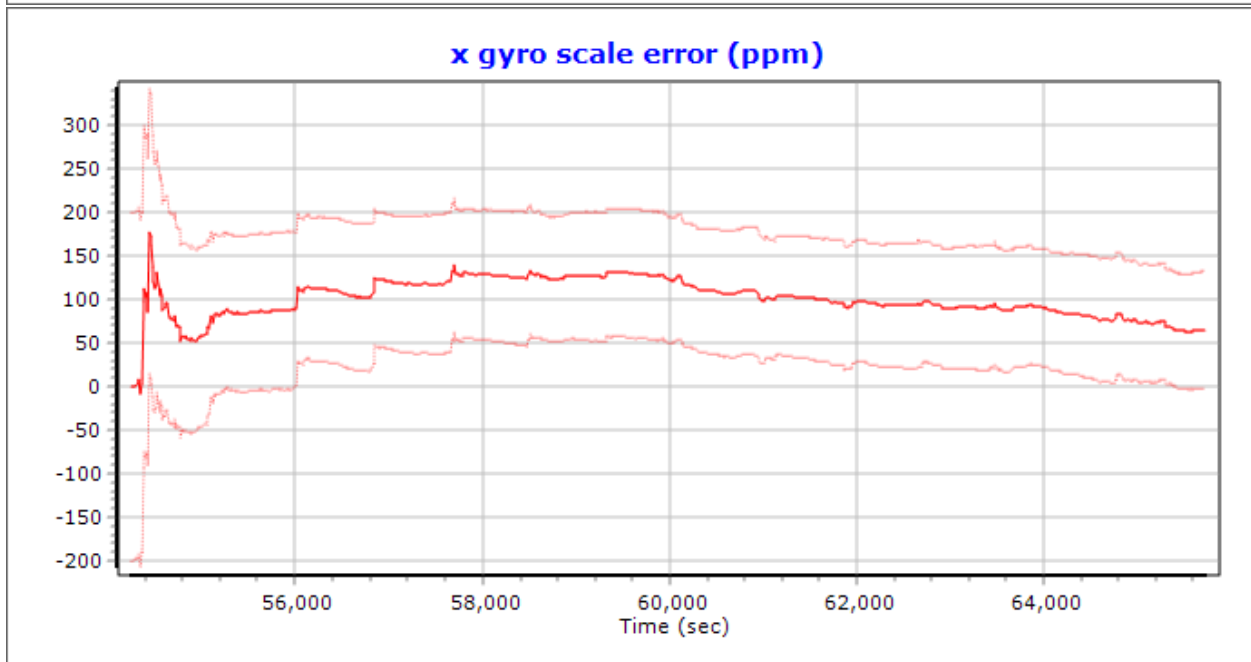
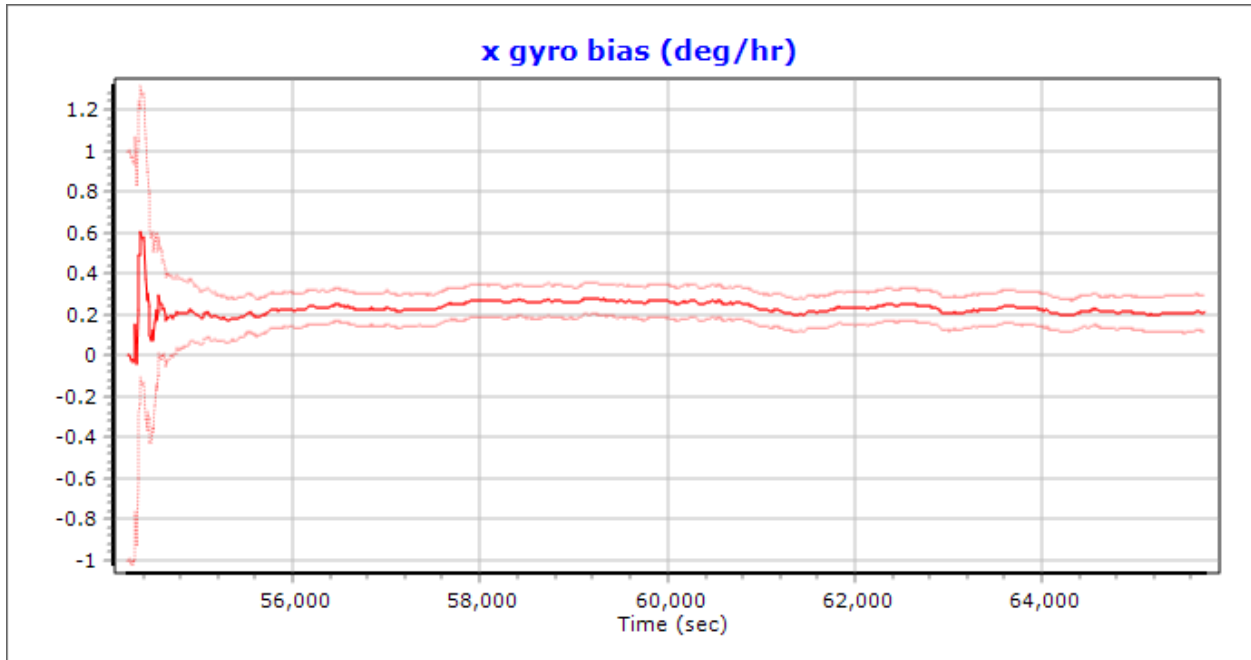
Last Epoch: 65.33

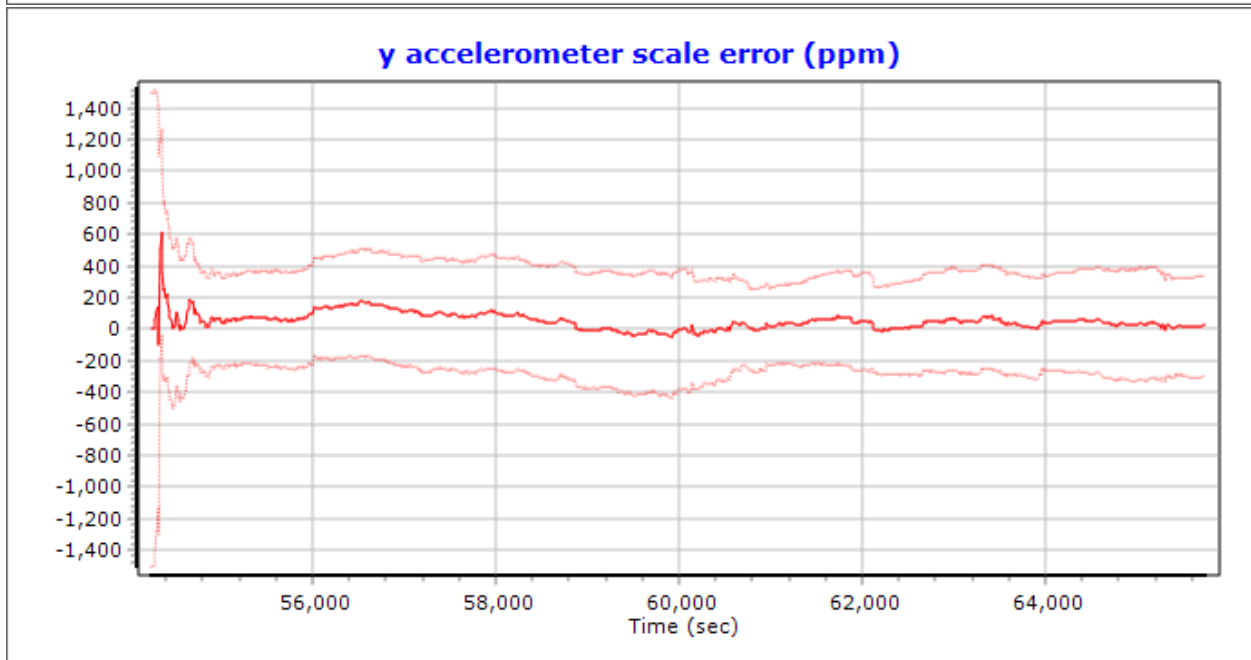
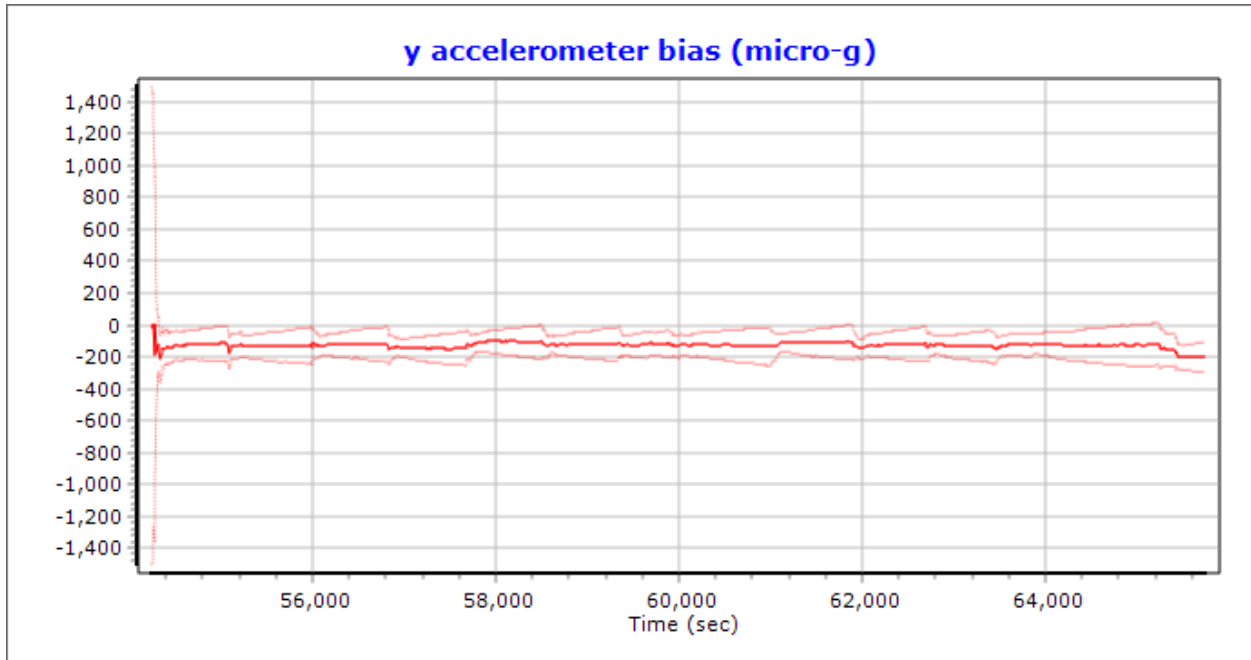
CORS Base Stations

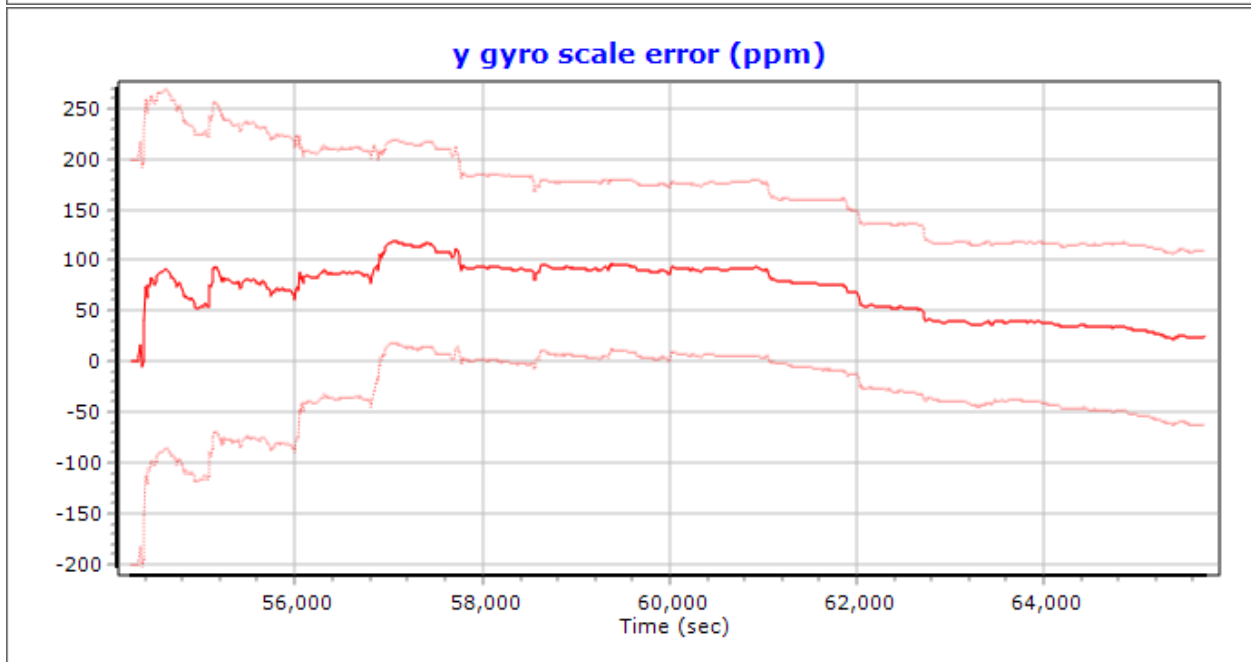
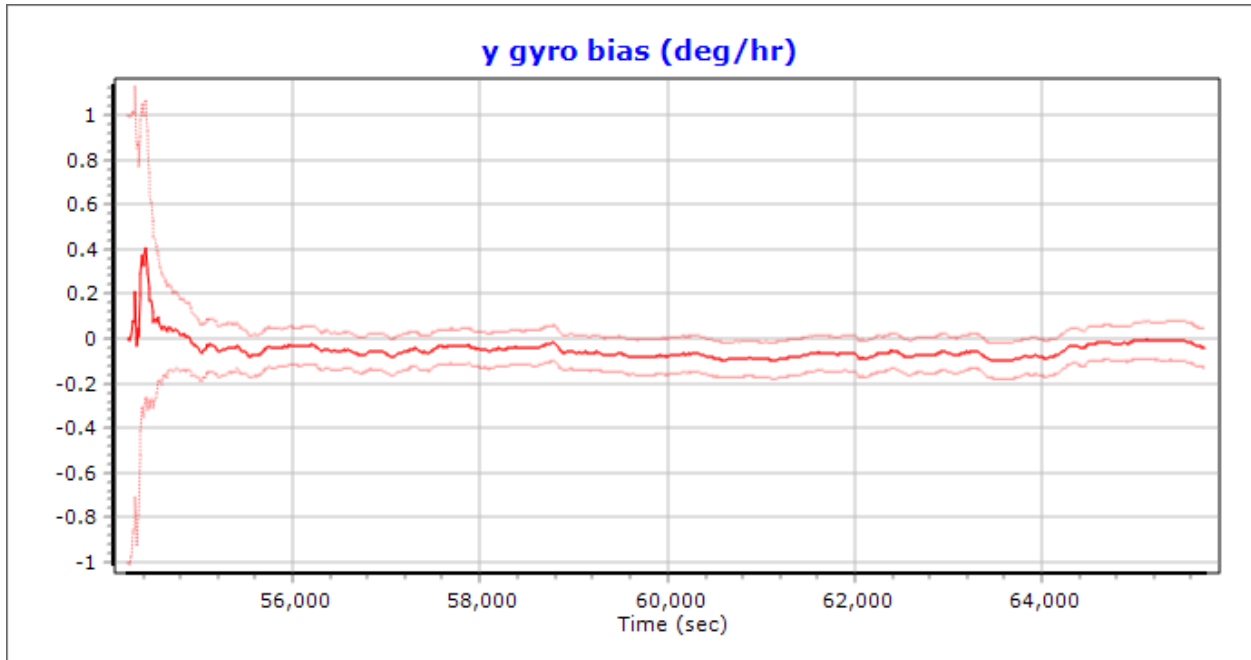
Station	Original (m)			Adjusted (m)		
	Latitude	Longitude	Altitude	Latitude	Longitude	Altitude
WVMF	N39°04'32.37375"	W78°55'57.02185"	312.272	N39°04'32.37375"	W78°55'57.02185"	312.272
WVCV	N39°00'55.10521"	W79°27'25.03372"	967.96	N39°00'55.10436"	W79°27'25.03276"	967.958
WVBU	N39°20'16.85123"	W78°54'48.61104"	198.786	N39°20'16.85114"	W78°54'48.61108"	198.785
LOYC	N39°07'12.57566"	W78°12'02.63199"	201.807	N39°07'12.57557"	W78°12'02.63209"	201.835
LOYA	N38°25'33.92913"	W78°53'21.79786"	363.918	N38°25'33.92910"	W78°53'21.79799"	363.963

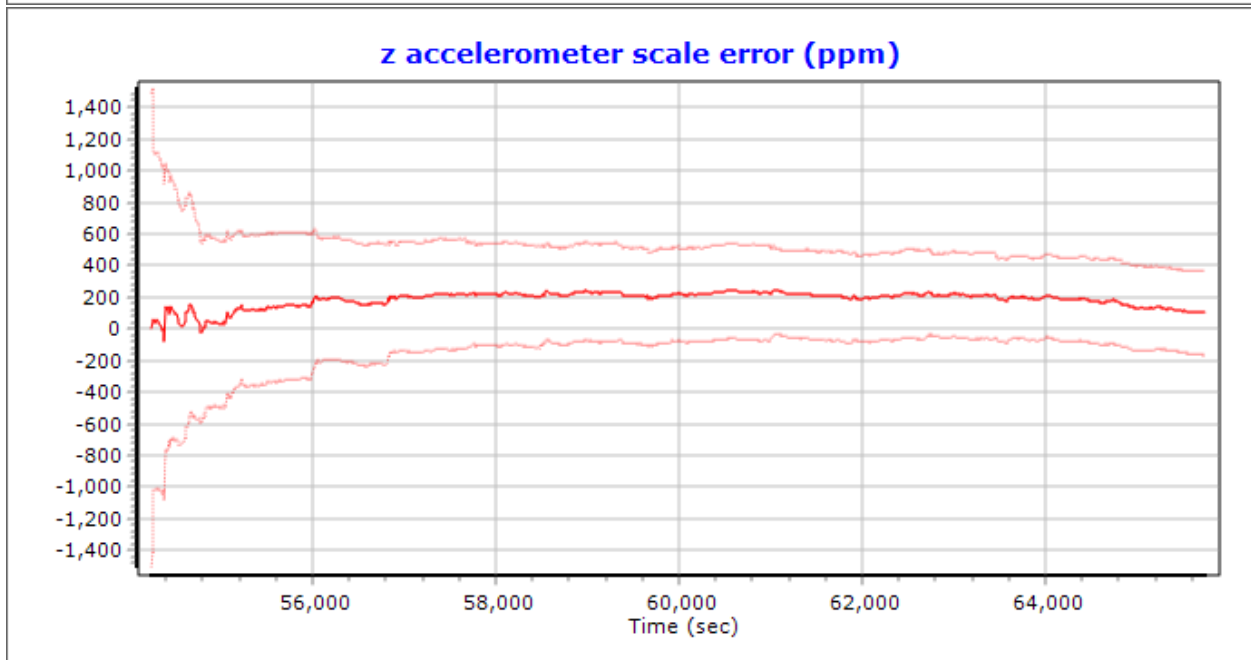
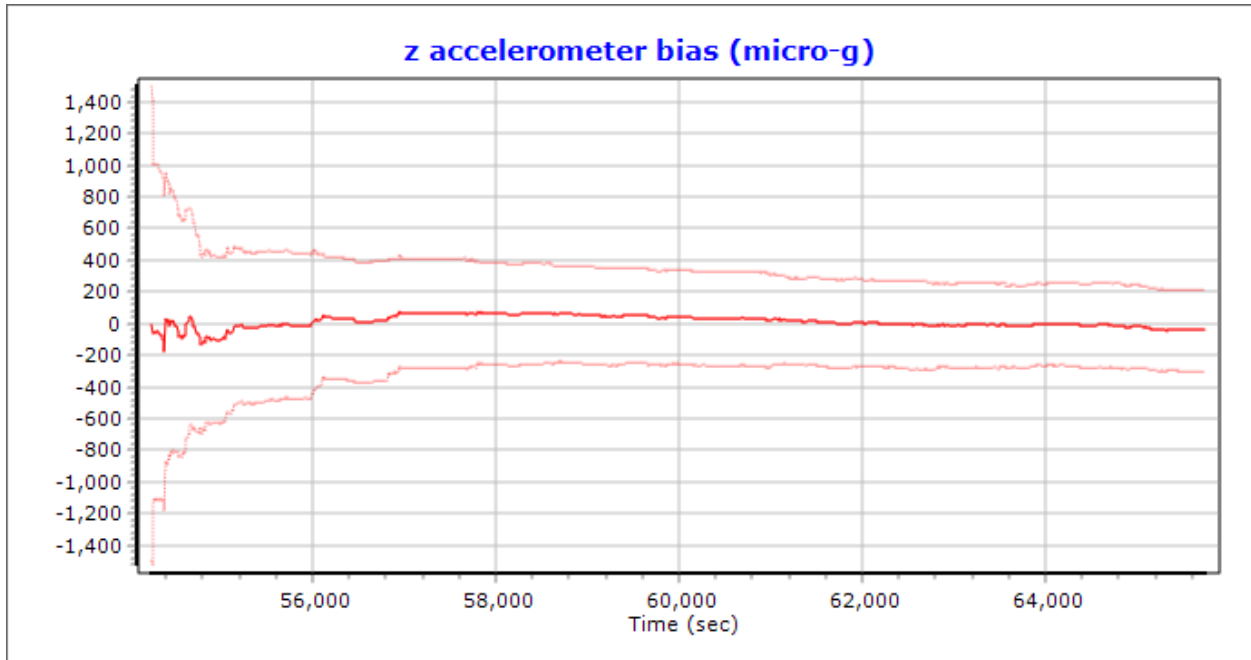


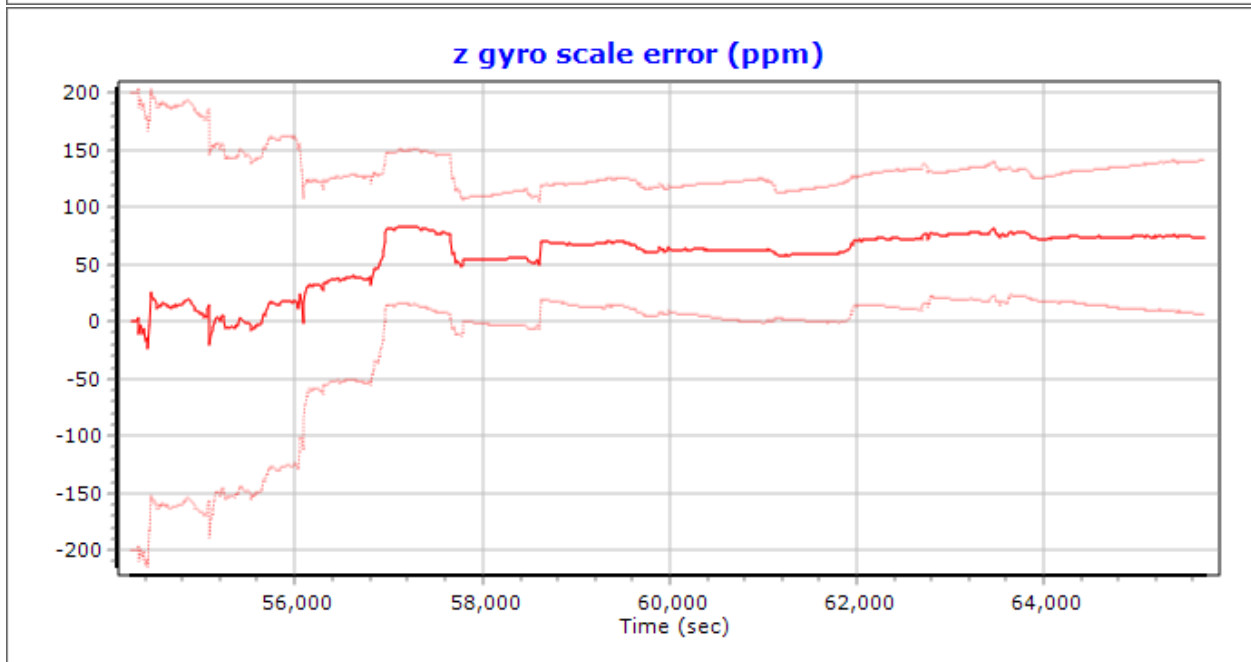
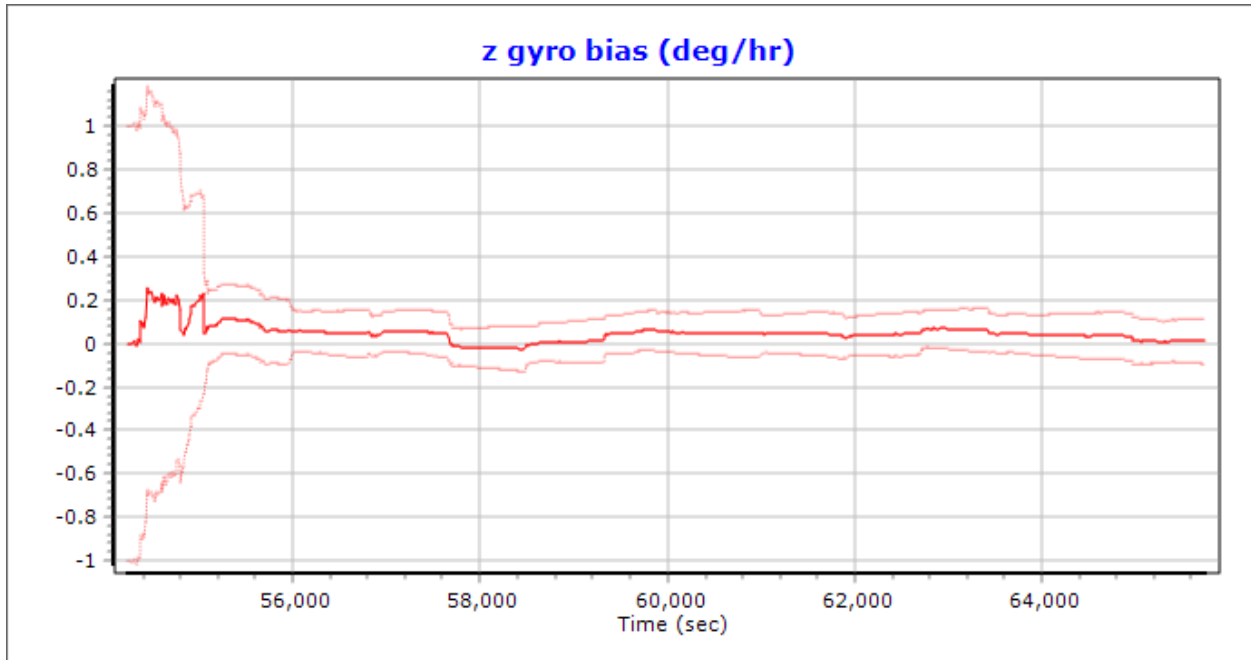


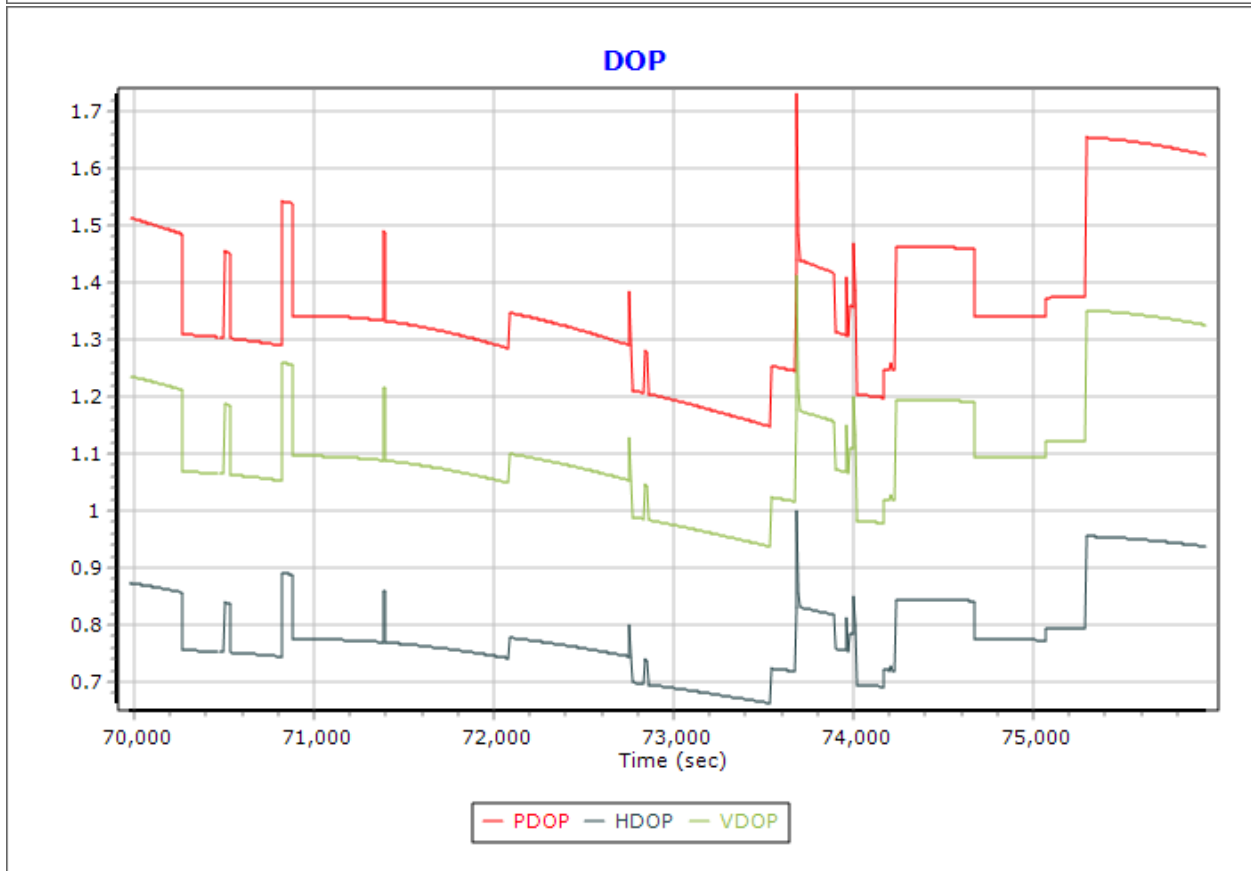
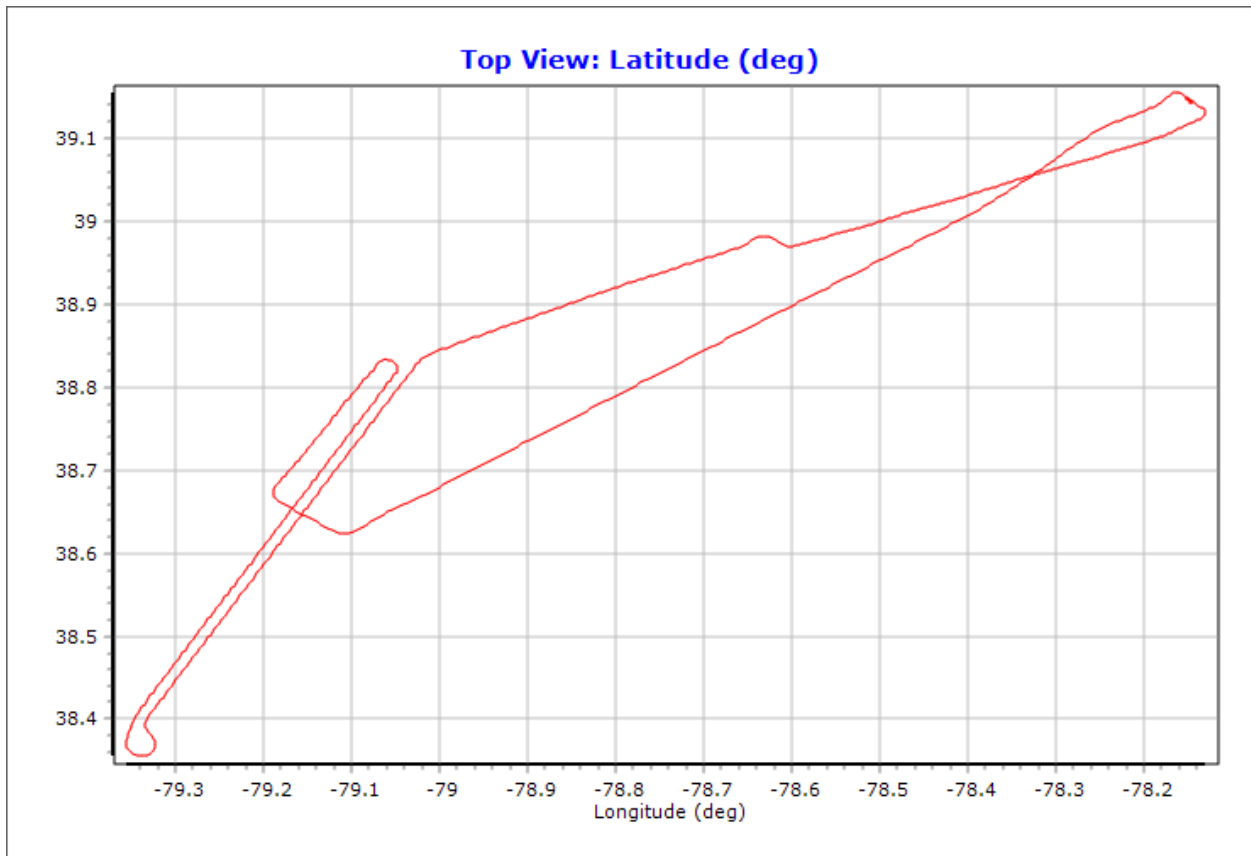


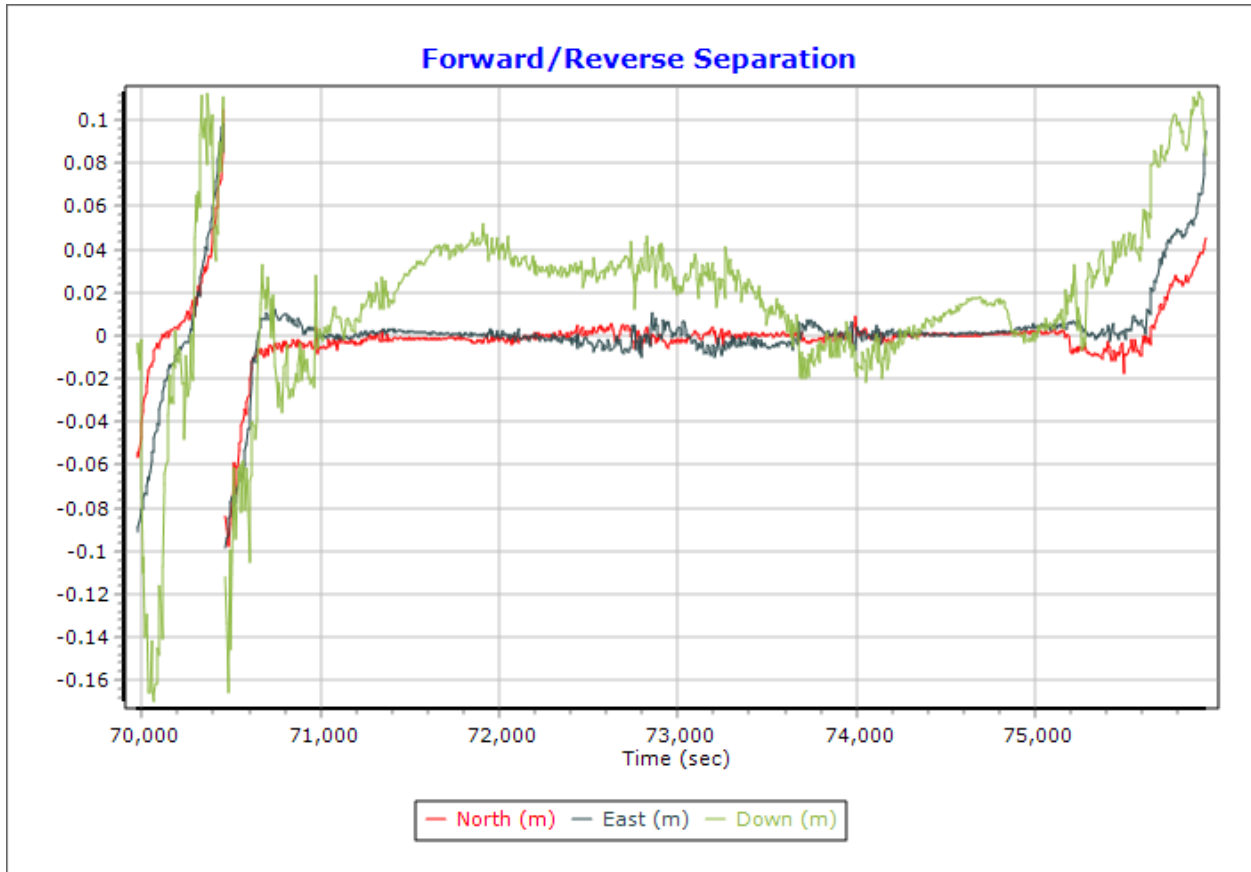


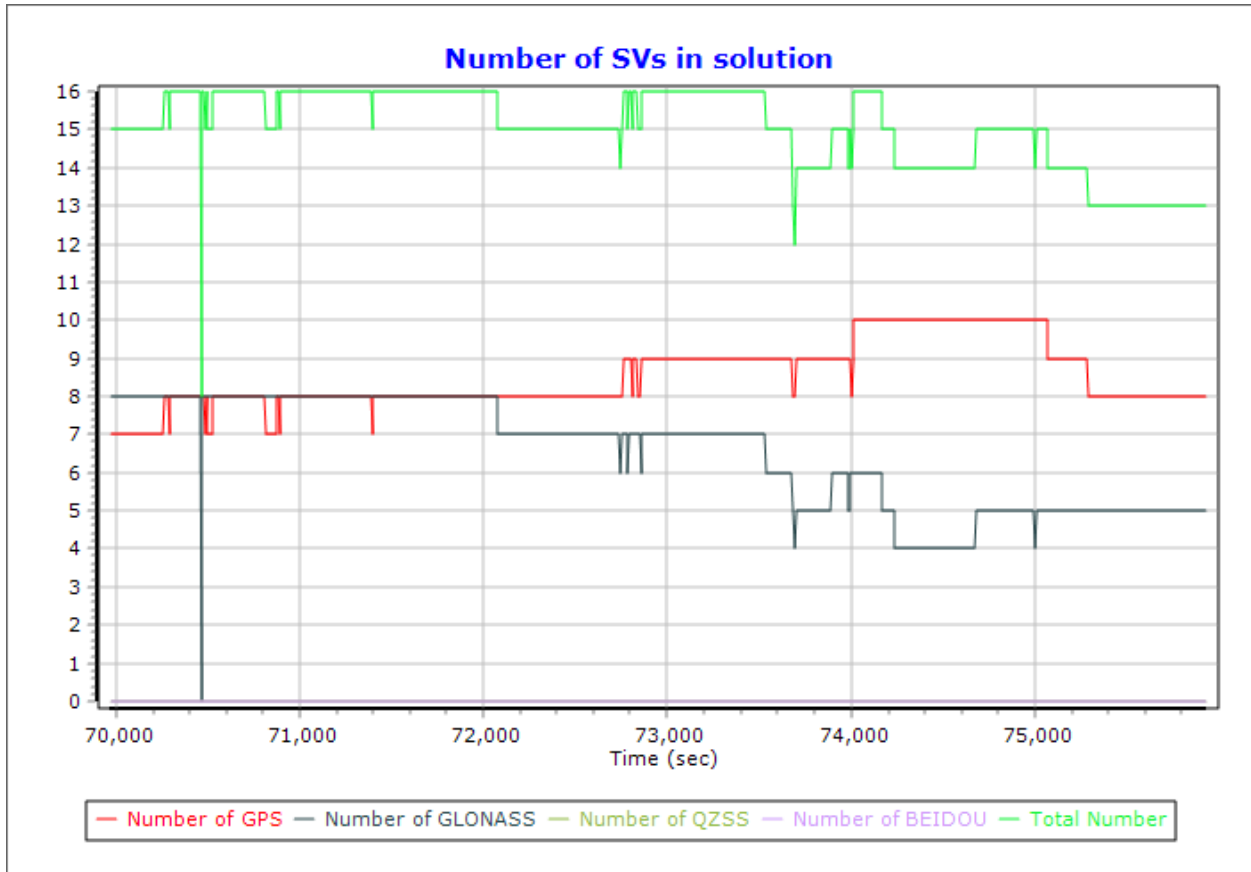












### Processing Summary Information

Program: POSPac MMS

Version: 7.2.5934.15637

Project: \\sa\data\216027\20170409\_WV\_C\05\_INS-GPS\_PROC\01\_POS\20170409\_WV\_C.pospac

Solution Type: IN-Fusion SmartBase

Fixed: 5971 (99.98%)

Float: 0 (0.0%)

No Solution: 1 (0.02%)

Number of Epochs:



Total in RAW file: 5998

No processed position: 27

Fwd/Rev Separation RMS Values (m):

East: 0.022

North: 0.015

Height: 0.043

Fwd/Rev Sep. RMS for 25%-75% weighting (m): 2999 occurrences

East: 0.003

North: 0.002

Height: 0.028

Position Standard Deviation Percentages:

0.00 - 0.10 m: 99.566 %

0.10 - 0.30 m: 0.434 %

0.30 - 1.00 m: 0.0 %

1.00 - 5.00 m: 0.0 %

5.00 m + over: 0.0 %

Percentages of epochs with DD\_DOP over 10.00: 0 %

DOP over Tol: 1.36 %

Baseline Distances (km):

Maximum: 76.85

Minimum: 2.95

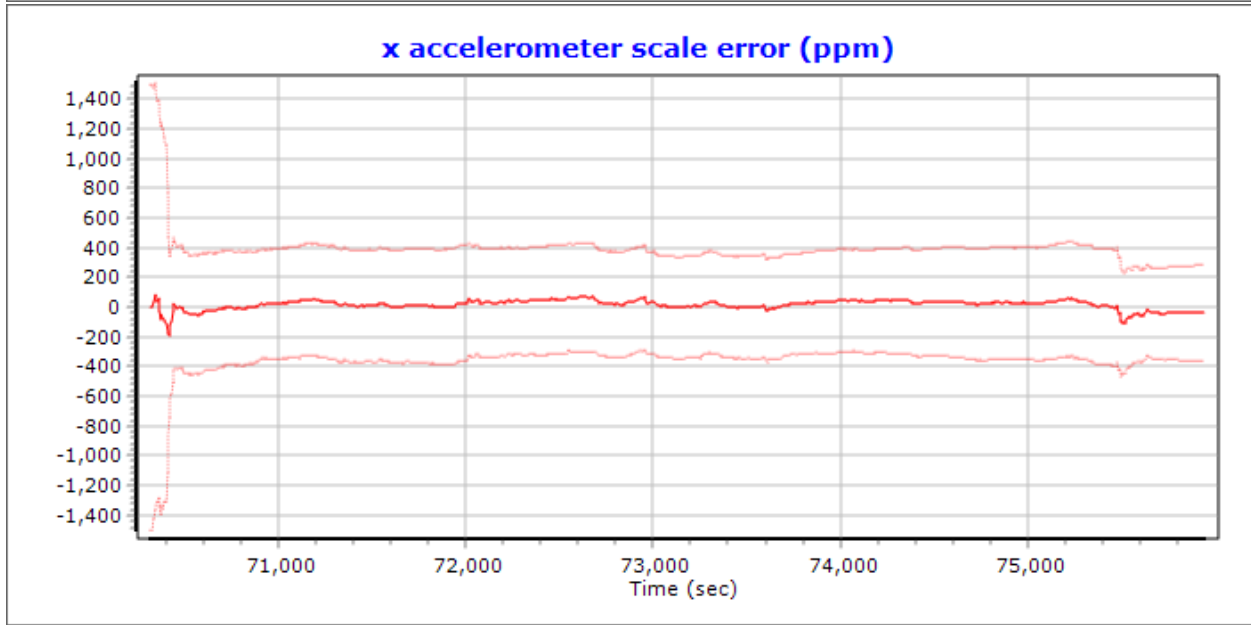
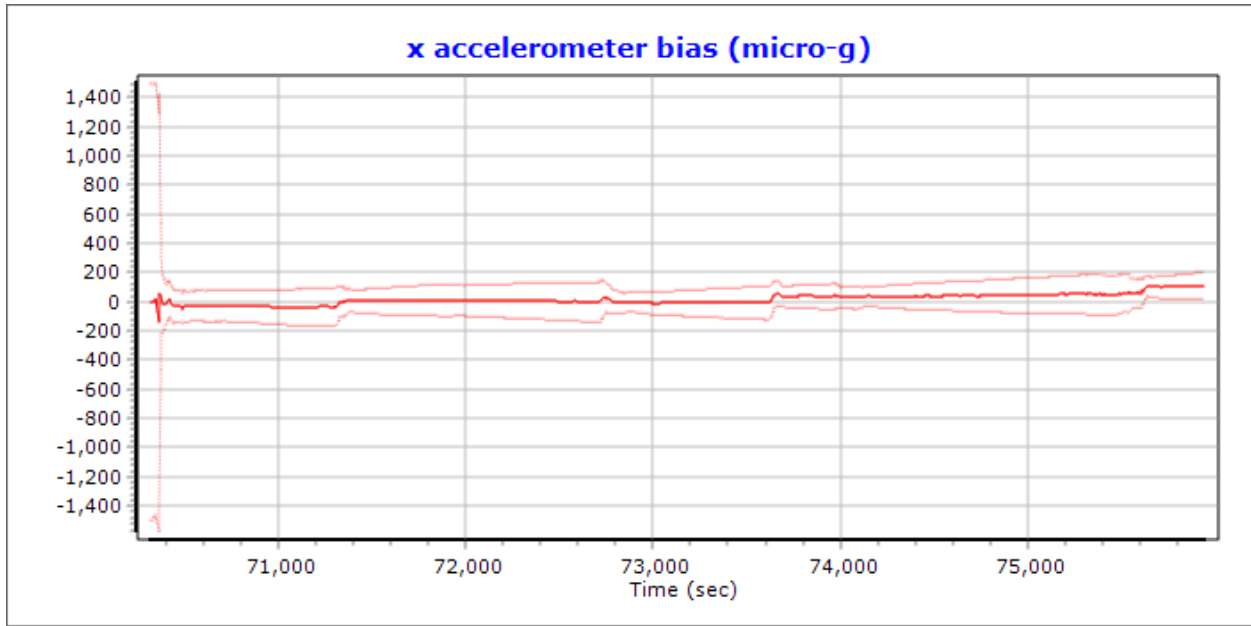
Average: 39.95

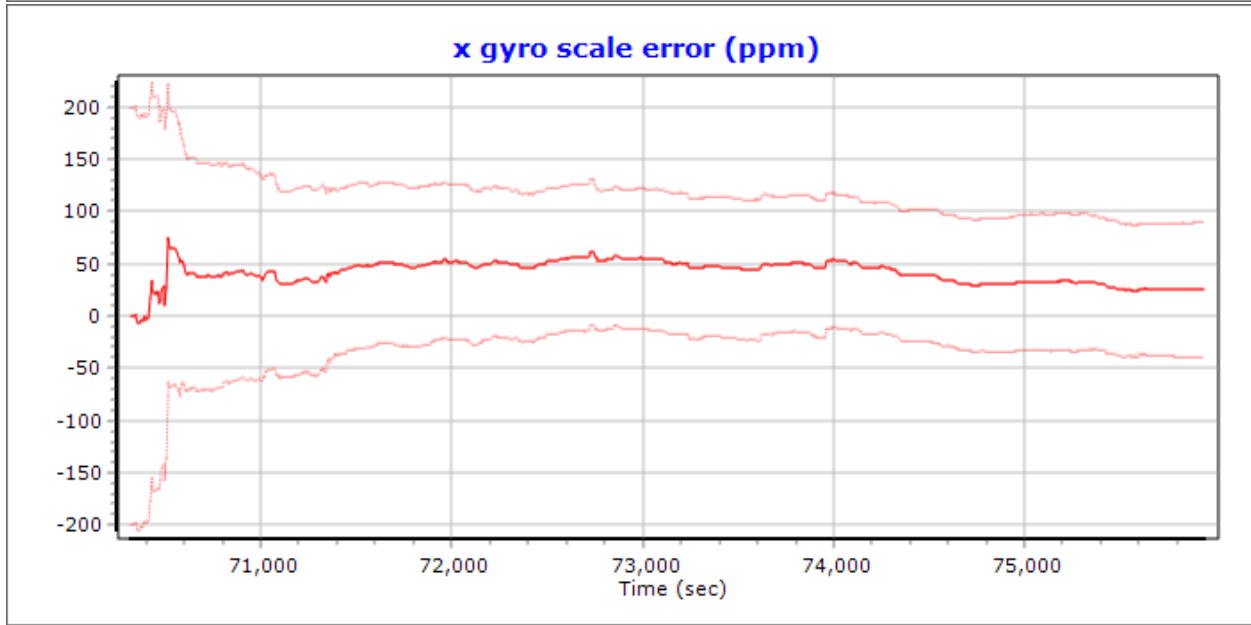
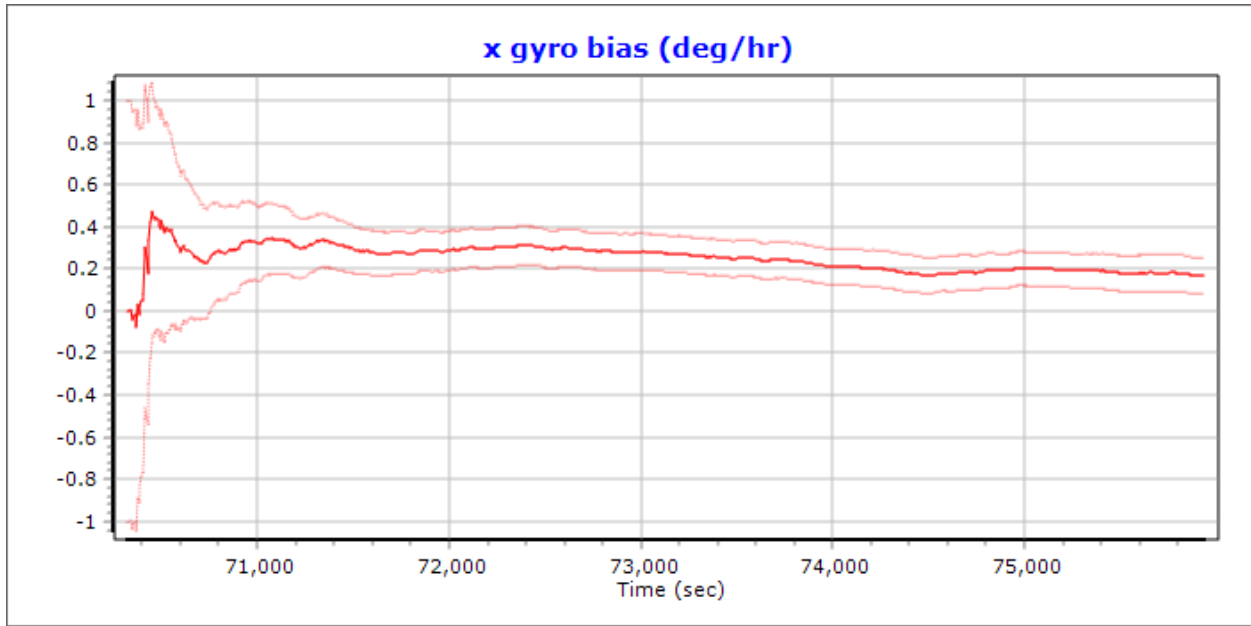
First Epoch: 60.126

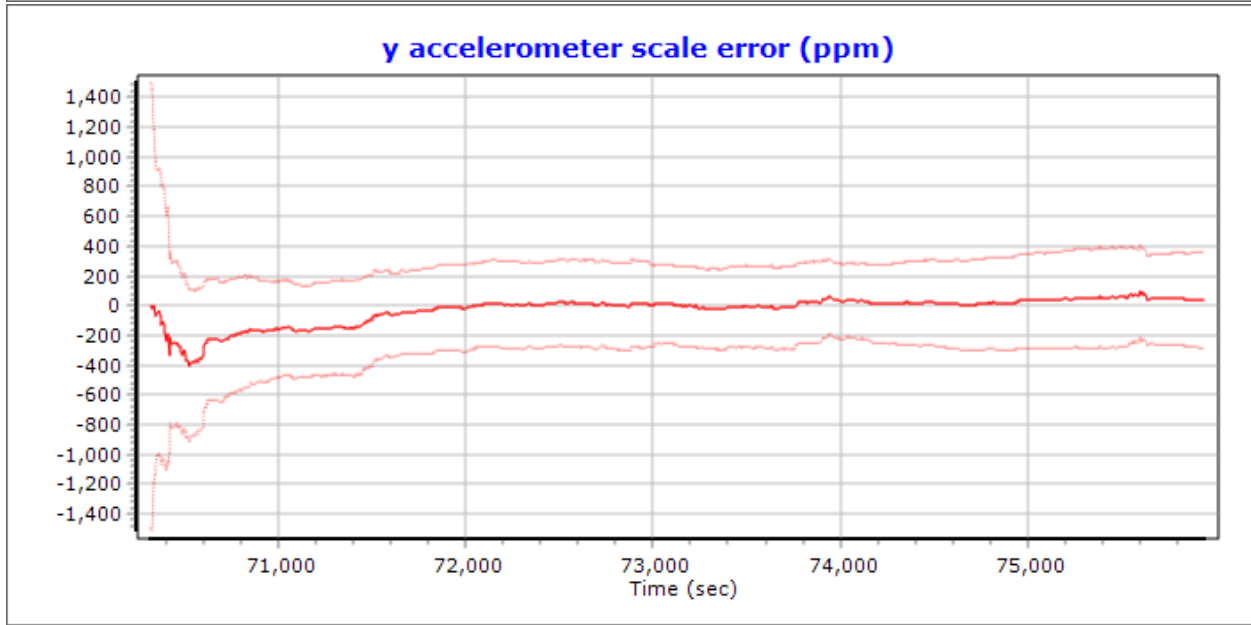
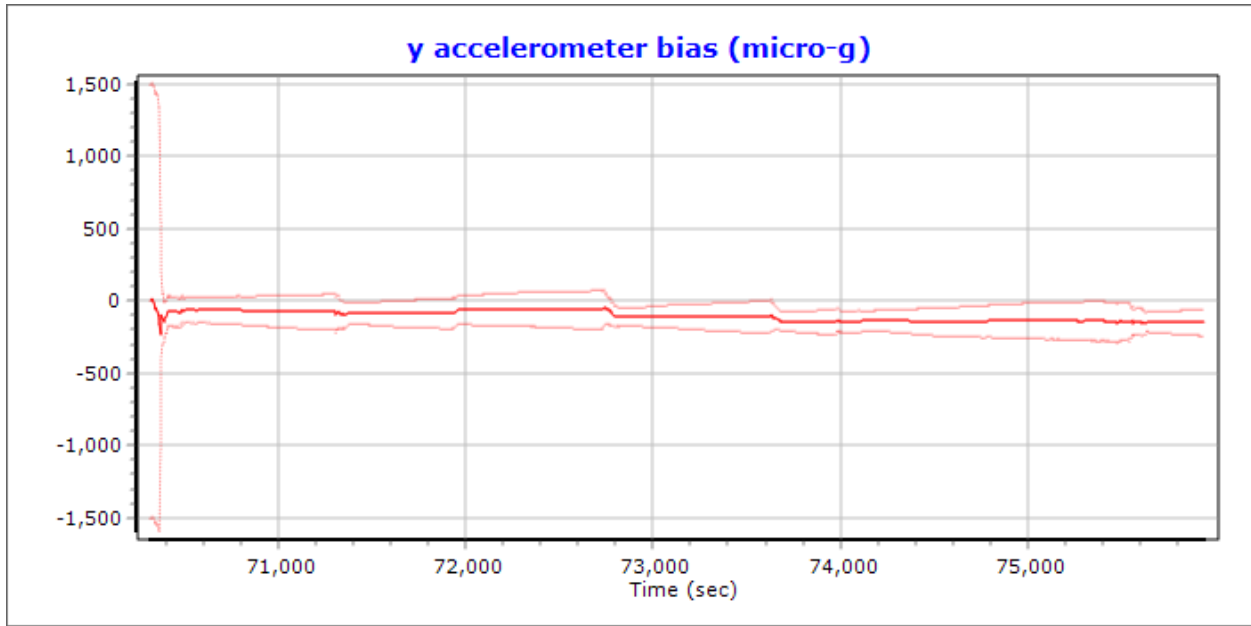
Last Epoch: 60.125

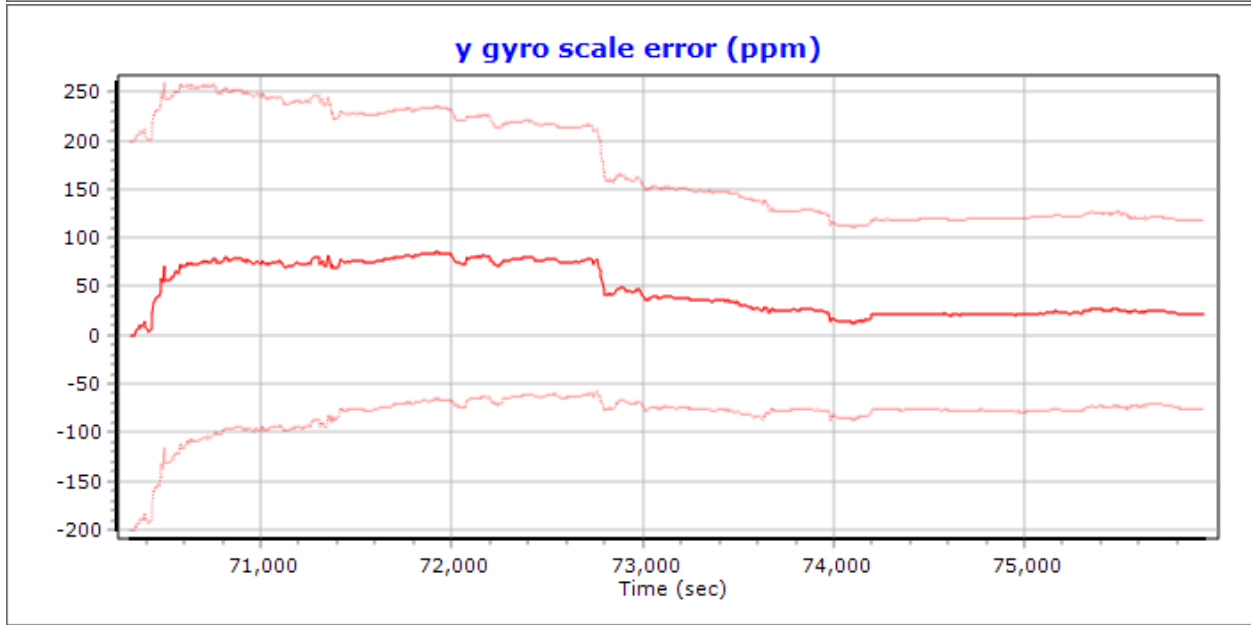
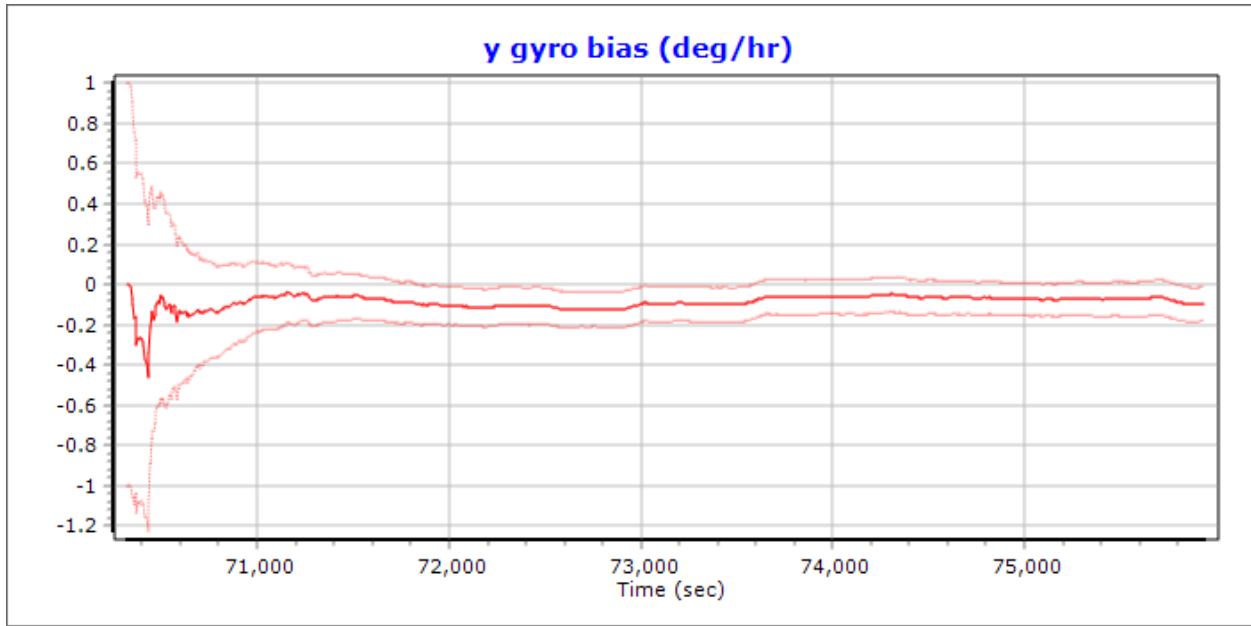
### CORS Base Stations

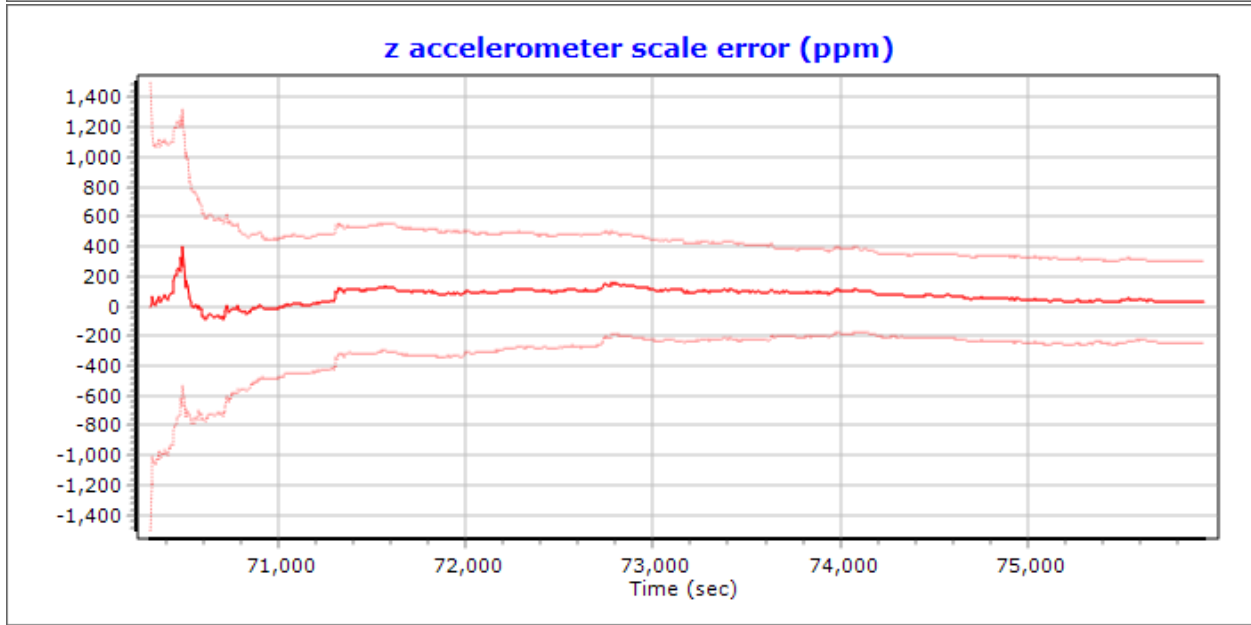
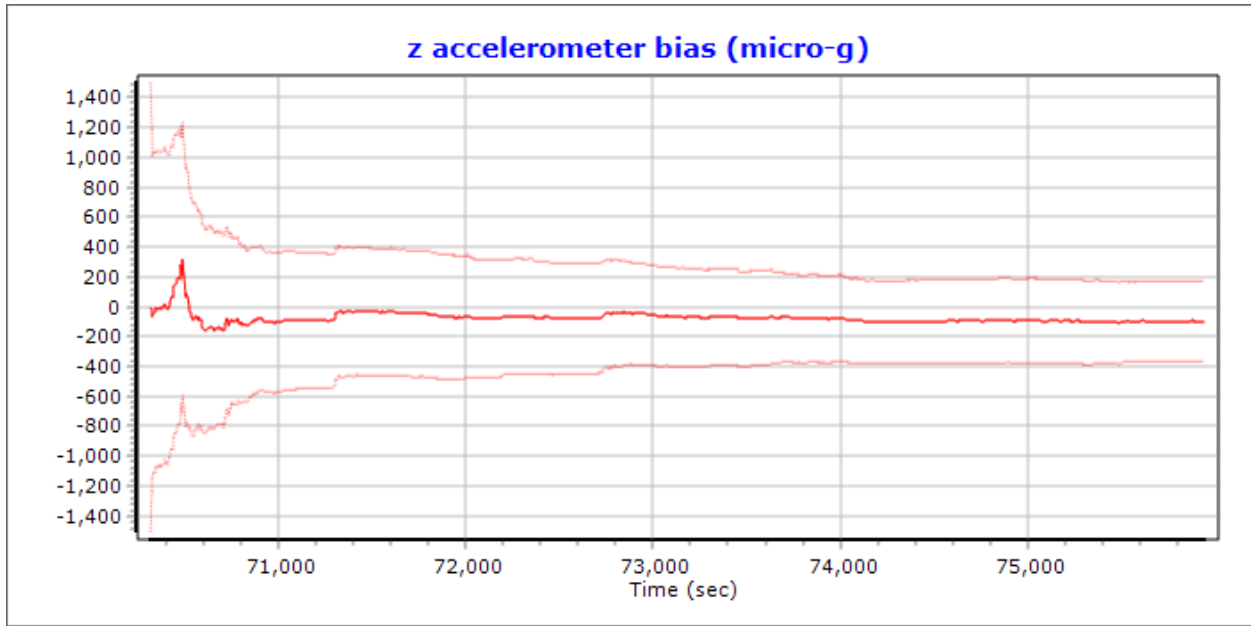
	Latitude	Longitude	Altitude	Latitude	Longitude	Altitude
WVNR	N38°53'44.53460"	W79°51'30.29514"	581.507	N38°53'44.53425"	W79°51'30.29456"	581.496
ZDC1	N39°06'05.74453"	W77°32'33.88958"	79.595	N39°06'05.74452"	W77°32'33.88938"	79.603
WVGB	N38°25'48.45401"	W79°49'01.31942"	811.181	N38°25'48.45358"	W79°49'01.31959"	811.174
WVCV	N39°00'55.10521"	W79°27'25.03372"	967.96	N39°00'55.10435"	W79°27'25.03266"	967.955
WVBU	N39°20'16.85132"	W78°54'48.61088"	198.786	N39°20'16.85112"	W78°54'48.61100"	198.783
VA01	N38°01'13.99976"	W78°00'53.07971"	111.246	N38°01'13.99924"	W78°00'53.08312"	111.411
UVFM	N37°52'43.49371"	W78°41'37.27120"	512.94	N37°52'43.49349"	W78°41'37.27105"	512.945
LOYY	N38°53'18.57664"	W78°29'56.96655"	220.904	N38°53'18.57664"	W78°29'56.96655"	220.904
LOYQ	N39°38'02.62366"	W77°42'51.12060"	127.23	N39°38'02.62373"	W77°42'51.12066"	127.205
LOYJ	N38°28'20.92225"	W78°00'36.16911"	103.853	N38°28'20.92219"	W78°00'36.16873"	103.852
LOYI	N38°01'59.45428"	W78°30'42.43166"	154.965	N38°01'59.45419"	W78°30'42.43153"	154.957
LOYC	N39°07'12.57576"	W78°12'02.63190"	201.807	N39°07'12.57551"	W78°12'02.63201"	201.834
ALLG	N39°39'13.91863"	W78°43'50.52712"	174.48	N39°39'13.91846"	W78°43'50.52704"	174.493

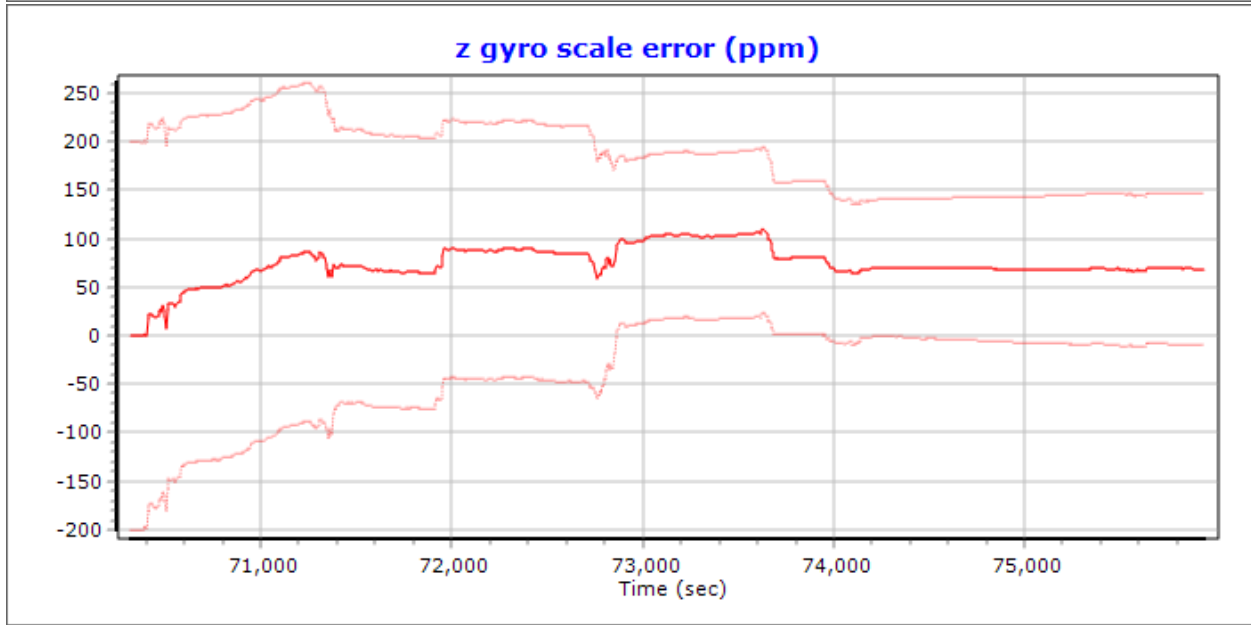
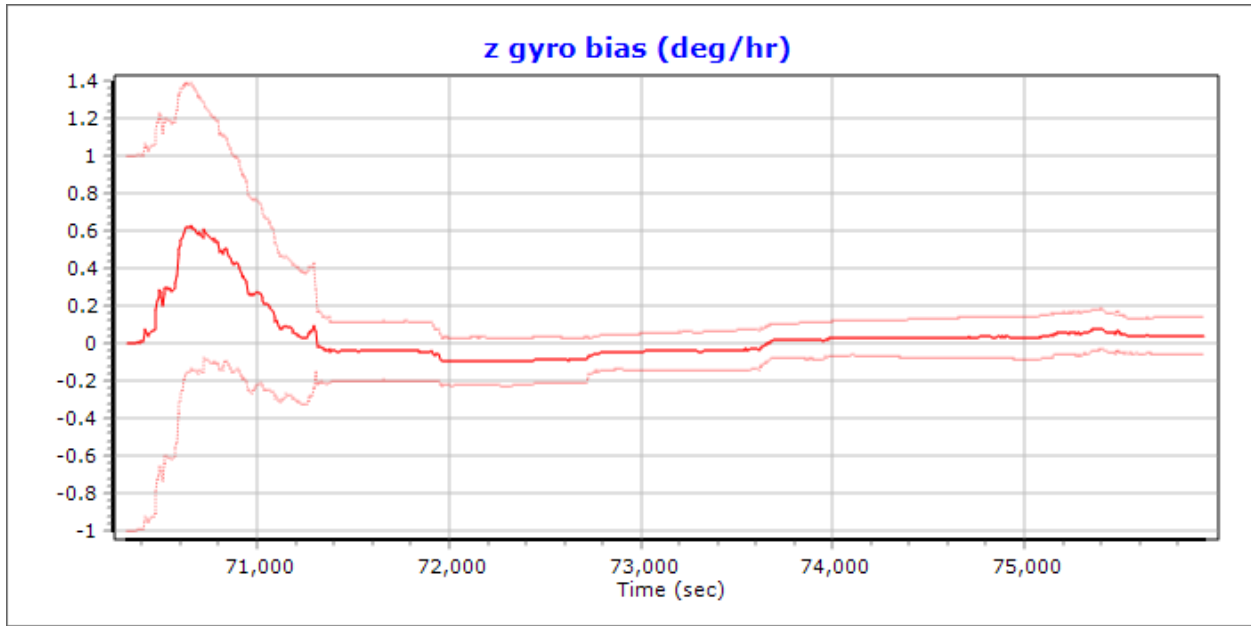




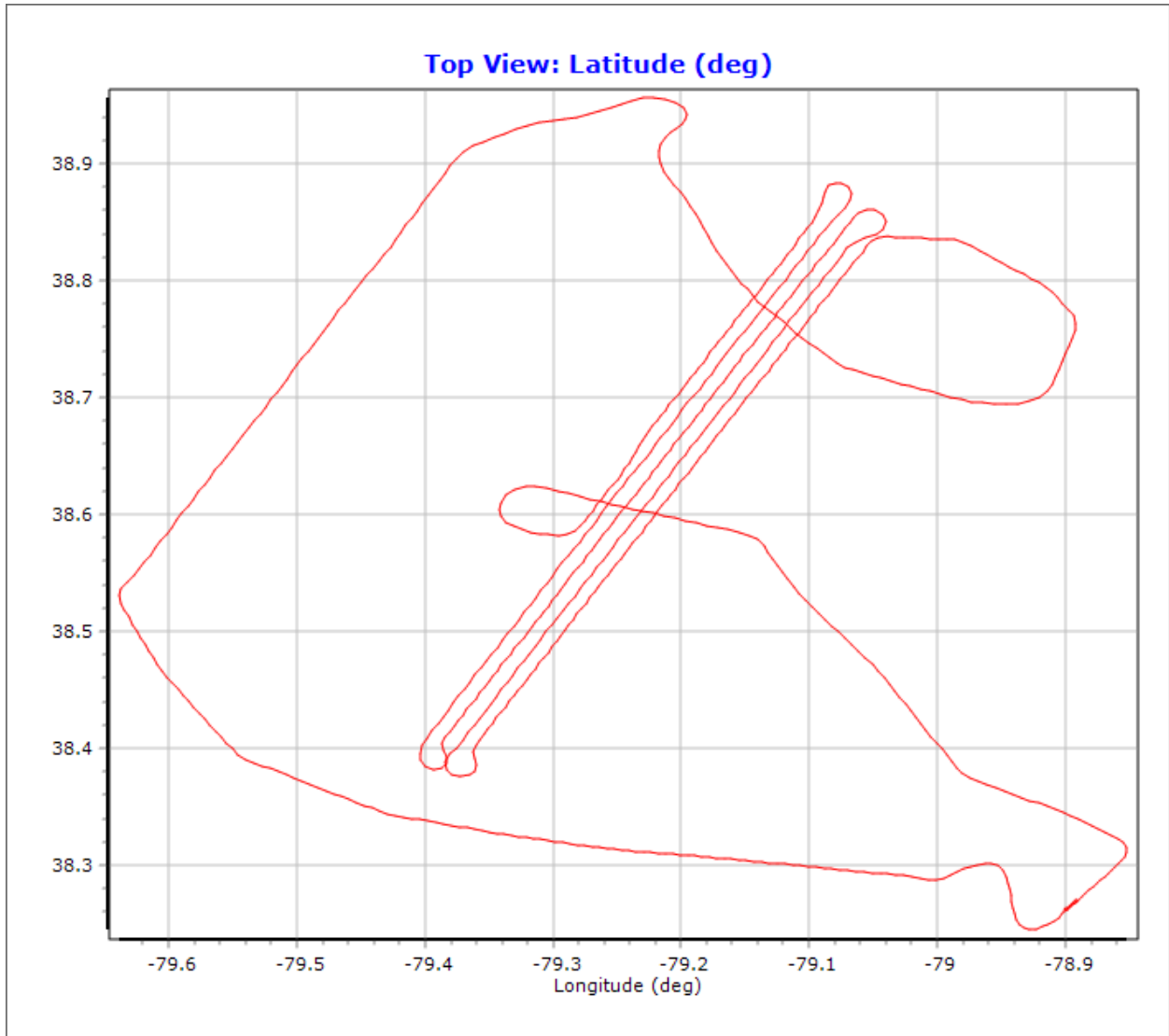


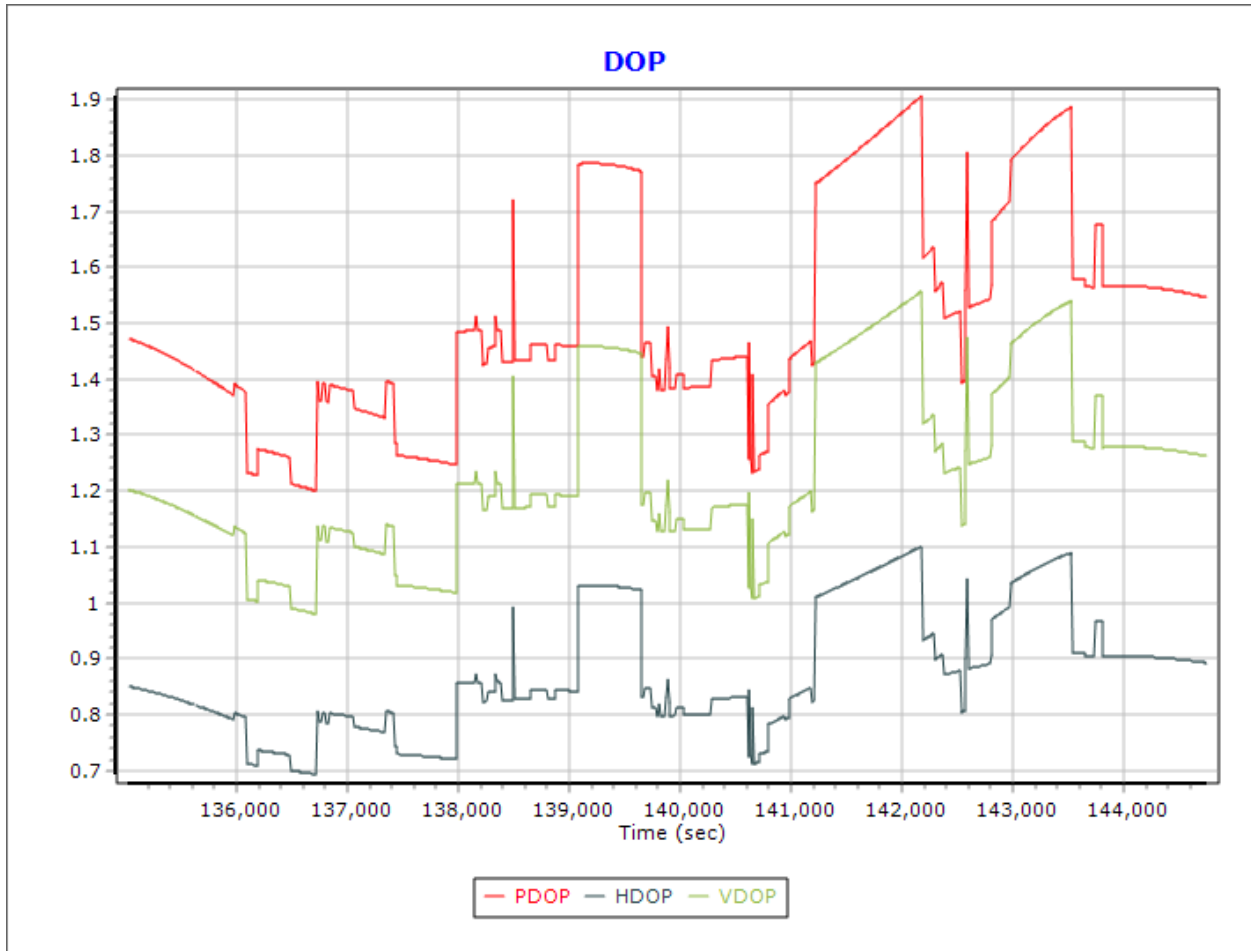


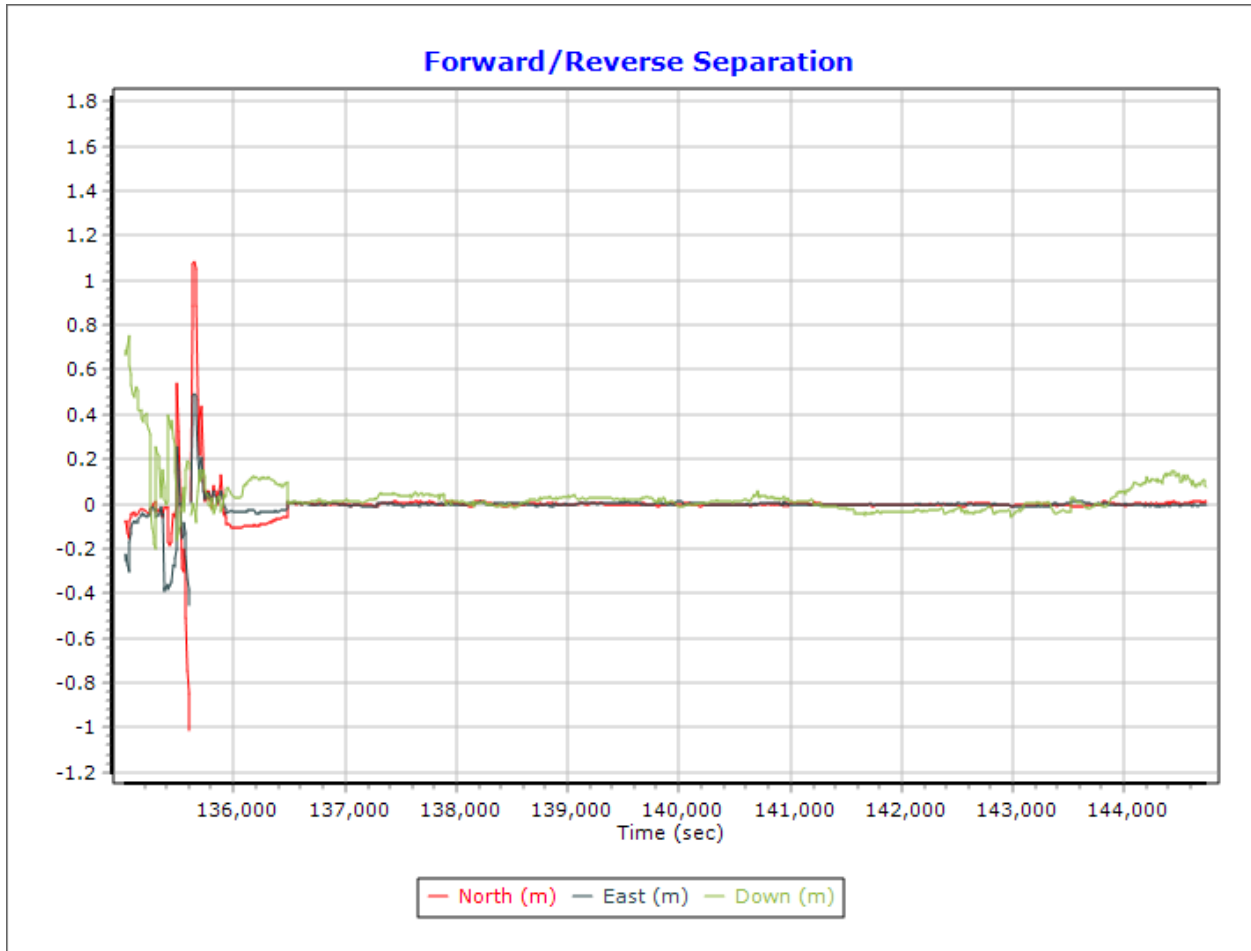


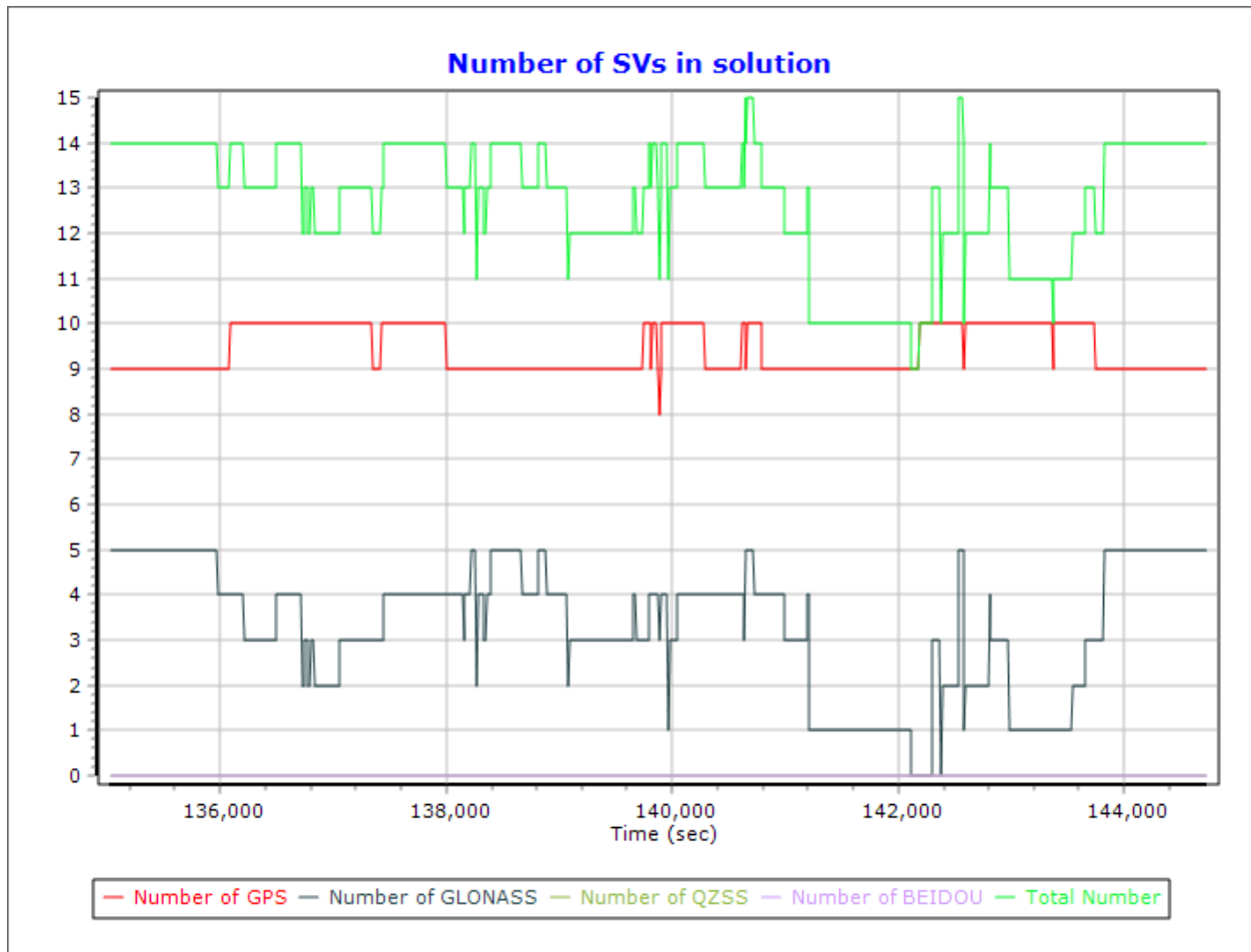












### Processing Summary Information

Program: POSPac MMS

Version: 7.2.5934.15637

Project: \\sa\data\216027\20170410\_WV\_A\05\_INS-GPS\_PROC\01\_POS\20170410\_WV\_A.pospac

Solution Type: IN-Fusion SmartBase

Fixed: 9123 (93.79%)

Float: 603 (6.2%)

No Solution: 1 (0.01%)

Number of Epochs:

Total in RAW file: 9742

No processed position: 619

Fwd/Rev Separation RMS Values (m):

East: 0.067

North: 0.102

Height: 0.104

Fwd/Rev Sep. RMS for 25%-75% weighting (m): 4870 occurrences

East: 0.004

North: 0.005

Height: 0.025

Position Standard Deviation Percentages:

0.00 - 0.10 m: 96.30 %

0.10 - 0.30 m: 2.03 %

0.30 - 1.00 m: 1.67 %

1.00 - 5.00 m: 0.00 %

5.00 m + over: 0.00 %

Percentages of epochs with DD\_DOP over 10.00: 0 %

DOP over Tol: 1.51 %

Baseline Distances (km):

Maximum: 43.86

Minimum: 2.90

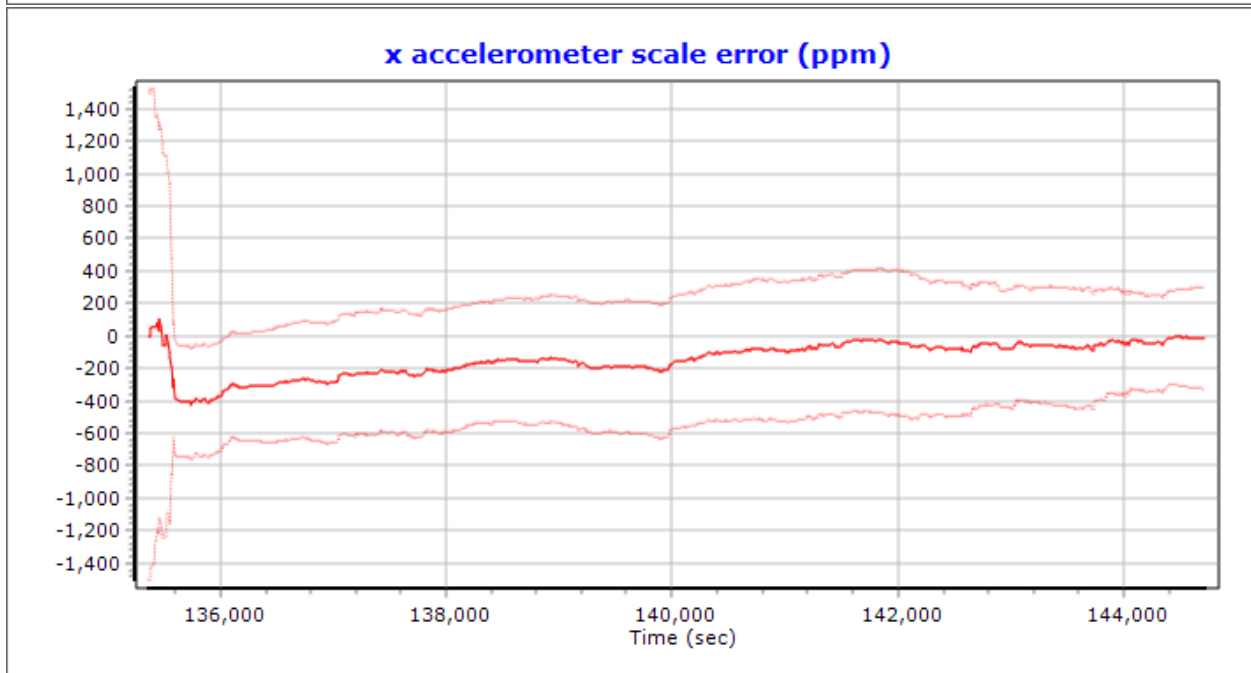
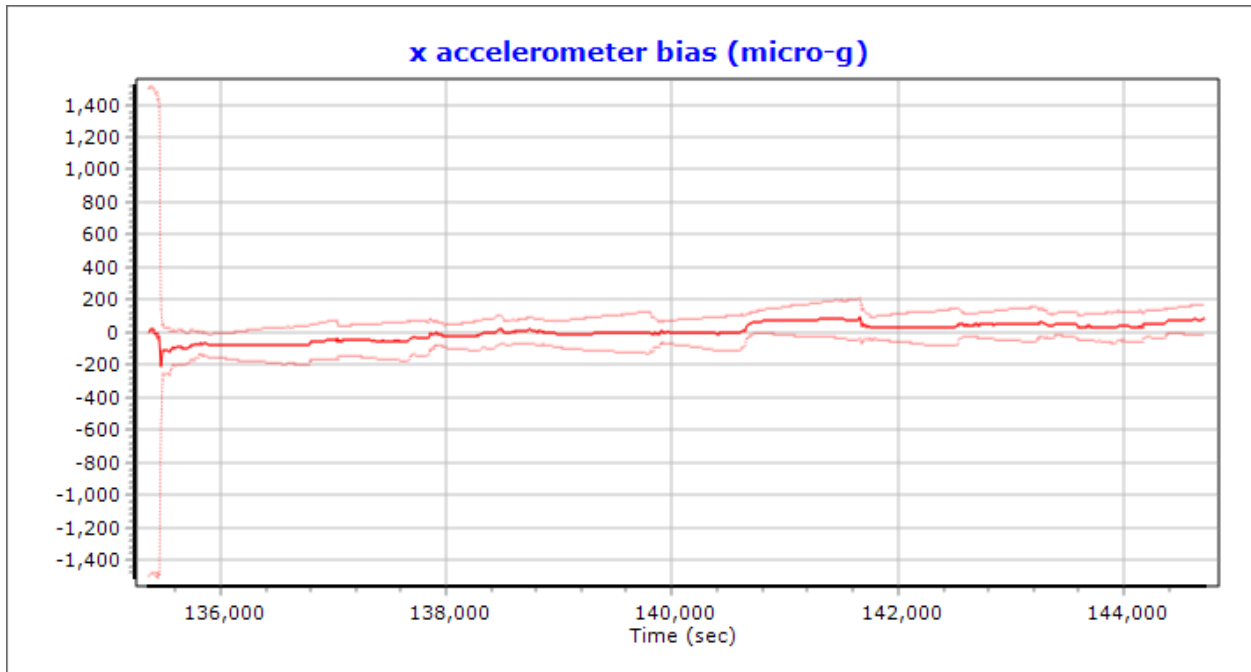
Average: 25.91

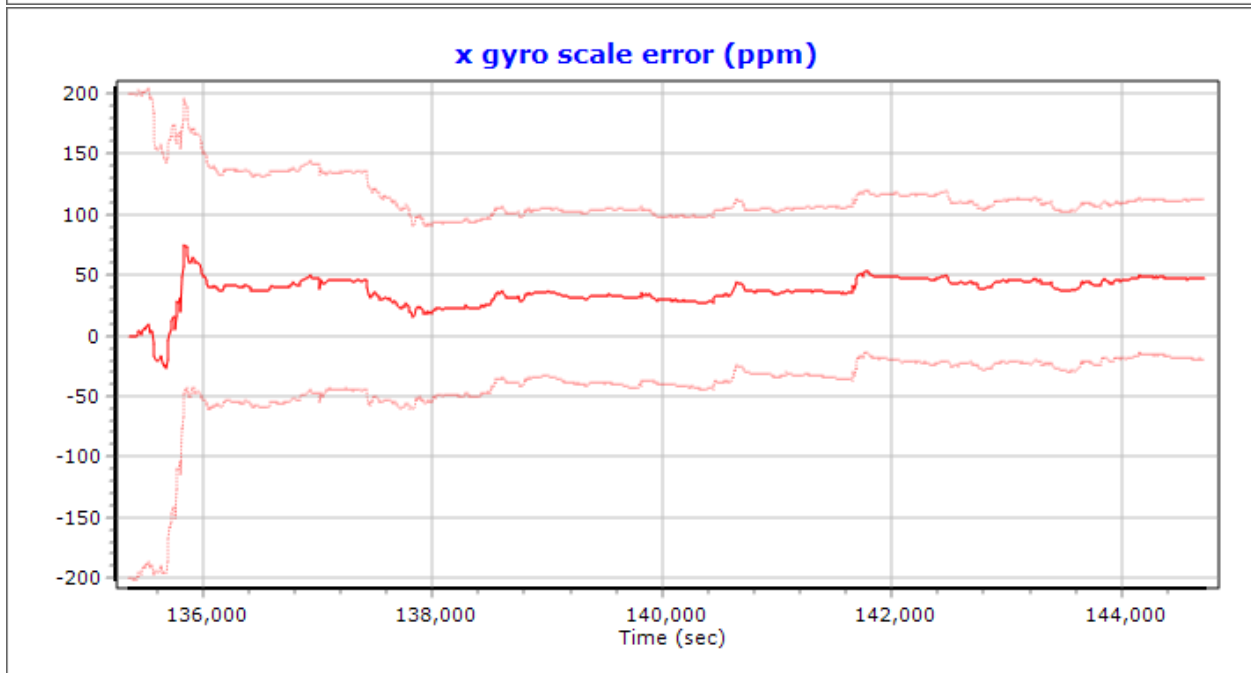
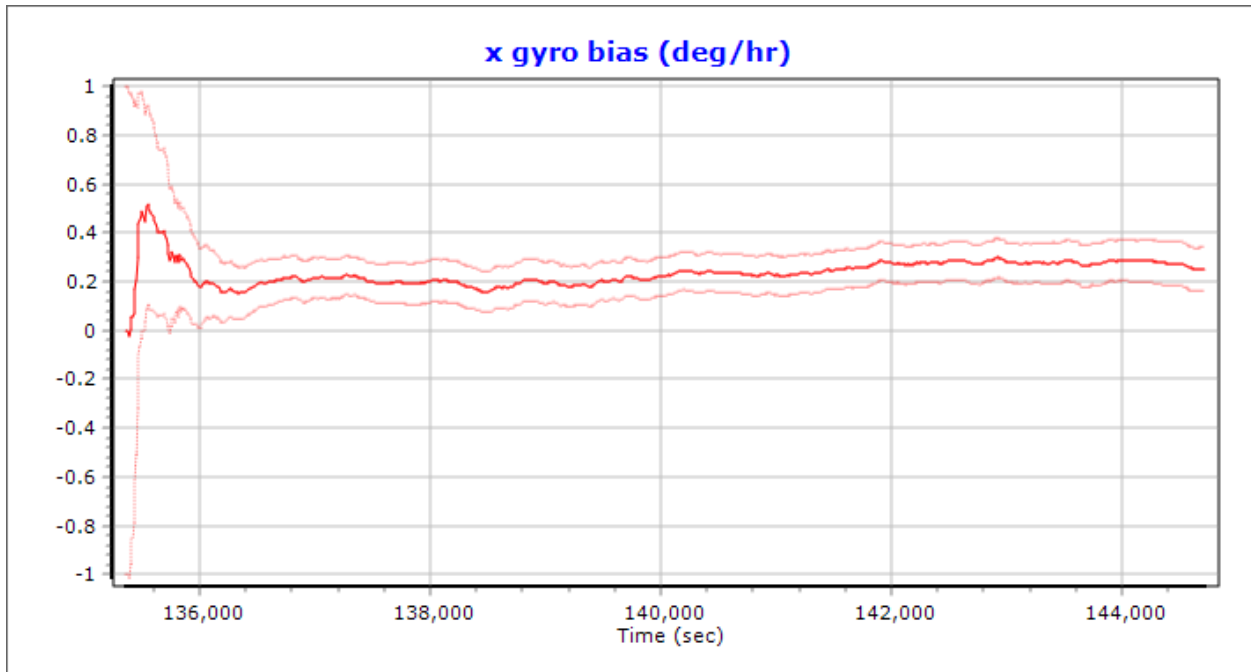
First Epoch: 41.285

Last Epoch: 41.278

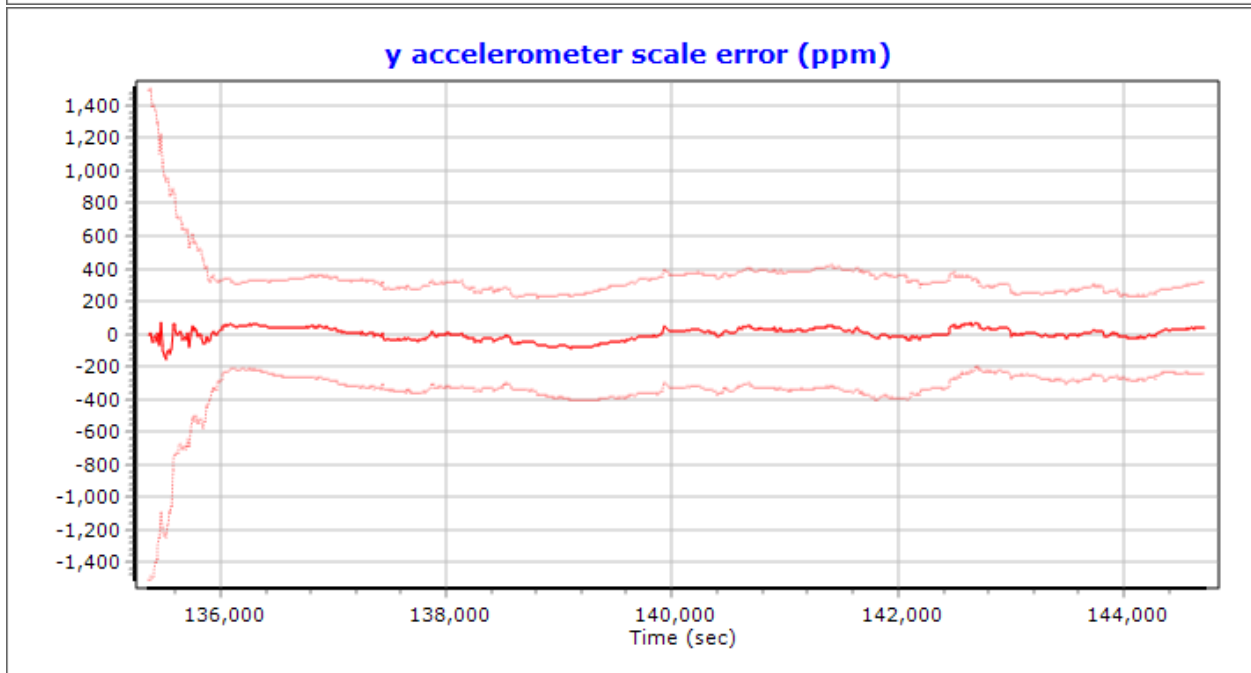
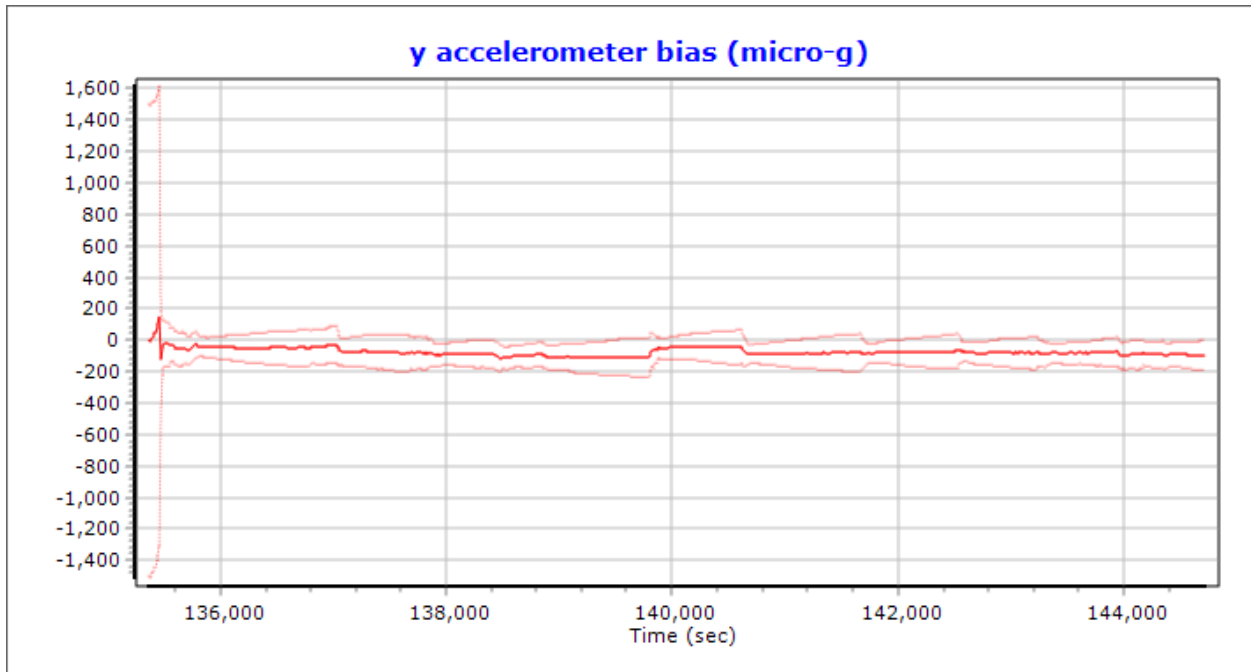
CORS Base Stations

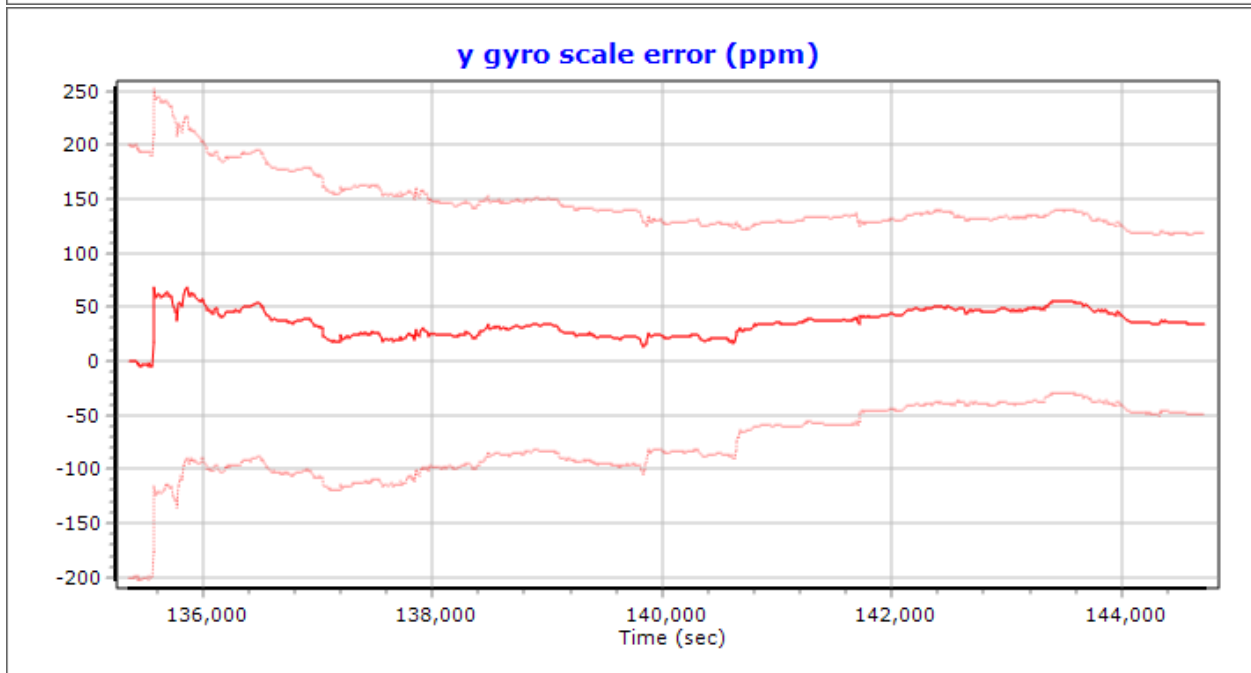
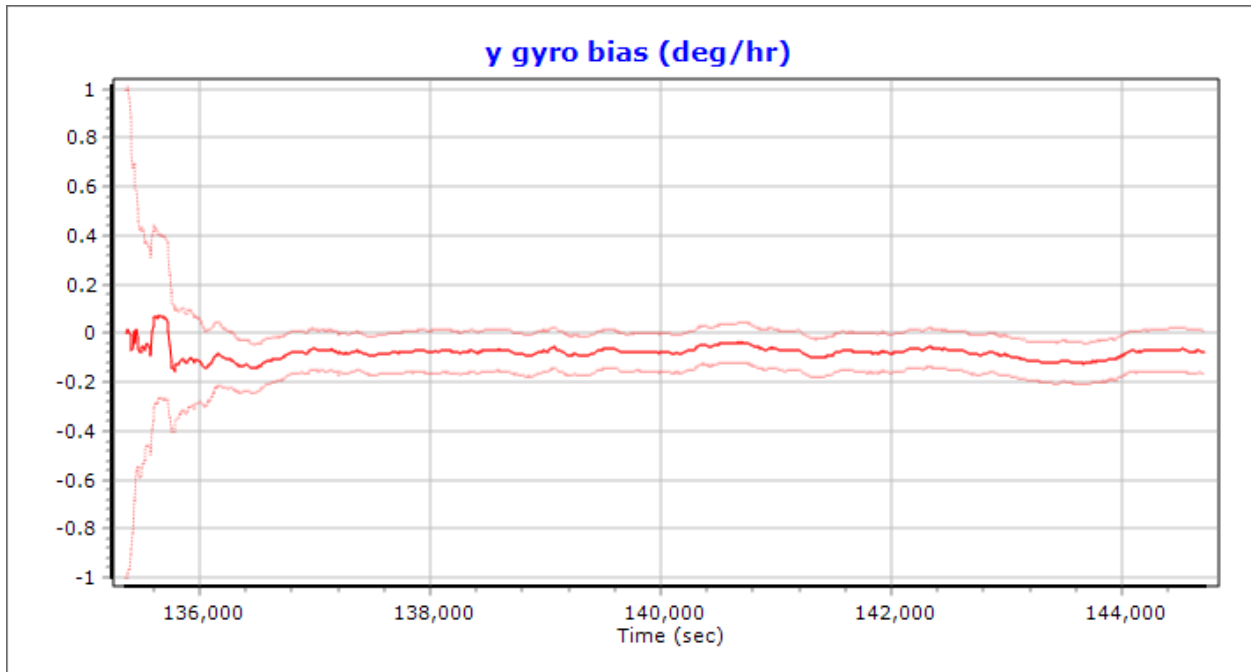
	Latitude	Longitude	Altitude	Latitude	Longitude	Altitude
WVCV	N39°00'55.10535"	W79°27'25.03425"	967.966	N39°00'55.10449"	W79°27'25.03273"	967.916
WVMF	N39°04'32.37375"	W78°55'57.02185"	312.272	N39°04'32.37385"	W78°55'57.02173"	312.226
WVGB	N38°25'48.45401"	W79°49'01.31942"	811.181	N38°25'48.45370"	W79°49'01.31956"	811.135
WVBU	N39°20'16.85132"	W78°54'48.61089"	198.786	N39°20'16.85126"	W78°54'48.61086"	198.745
VA01	N38°01'13.99976"	W78°00'53.07971"	111.245	N38°01'13.99935"	W78°00'53.08291"	111.369
UVFM	N37°52'43.49371"	W78°41'37.27121"	512.94	N37°52'43.49359"	W78°41'37.27106"	512.896
LOYY	N38°53'18.57664"	W78°29'56.96655"	220.904	N38°53'18.57673"	W78°29'56.96645"	220.865
LOYJ	N38°28'20.92225"	W78°00'36.16912"	103.853	N38°28'20.92232"	W78°00'36.16863"	103.812
LOYI	N38°01'59.45428"	W78°30'42.43166"	154.965	N38°01'59.45425"	W78°30'42.43139"	154.913
LOYC	N39°07'12.57576"	W78°12'02.63190"	201.807	N39°07'12.57564"	W78°12'02.63185"	201.795
LOYA	N38°25'33.92921"	W78°53'21.79774"	363.919	N38°25'33.92921"	W78°53'21.79774"	363.919

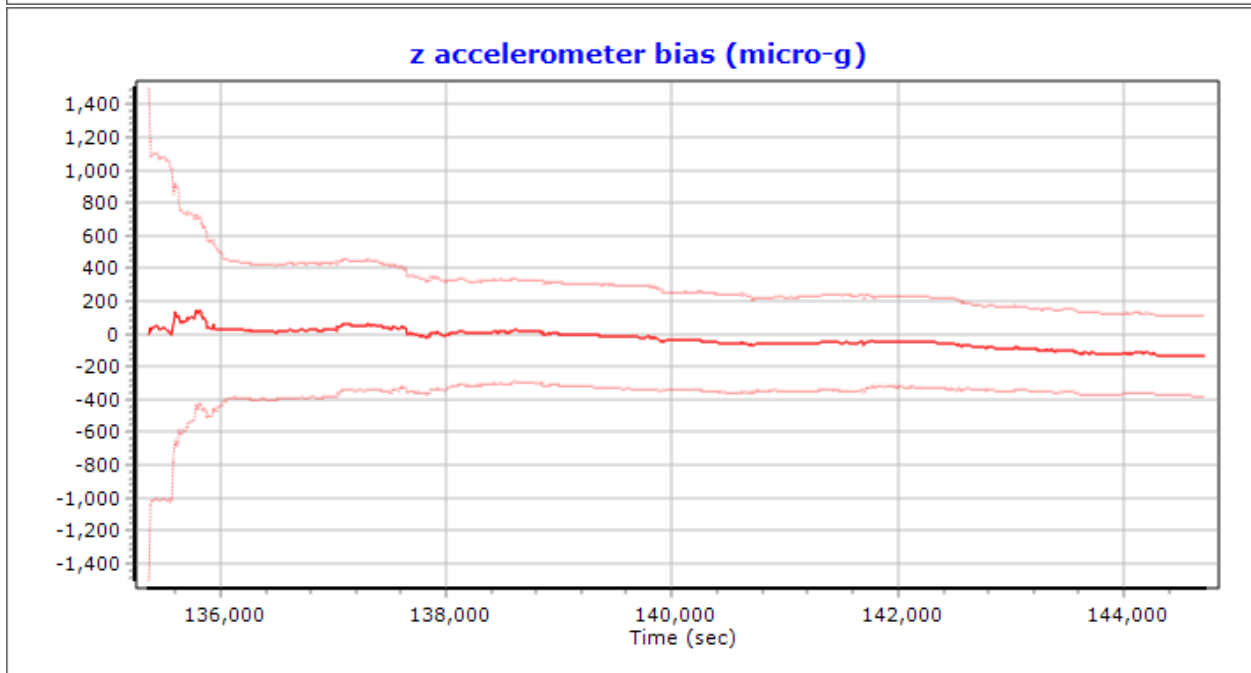
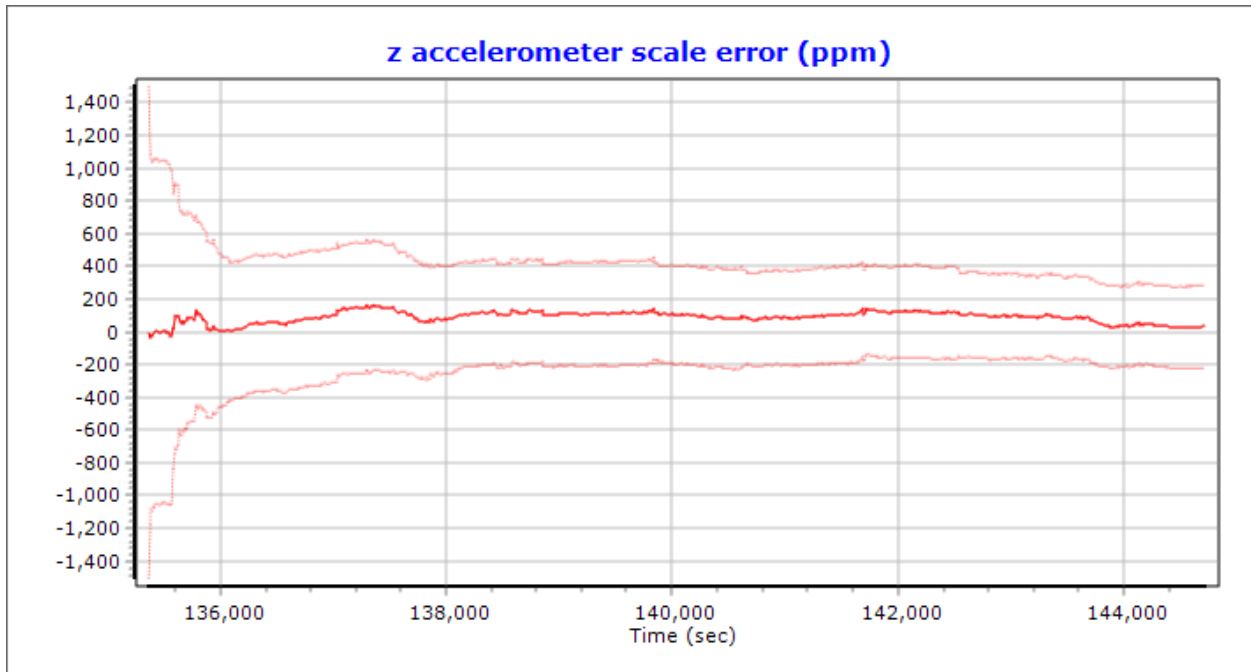


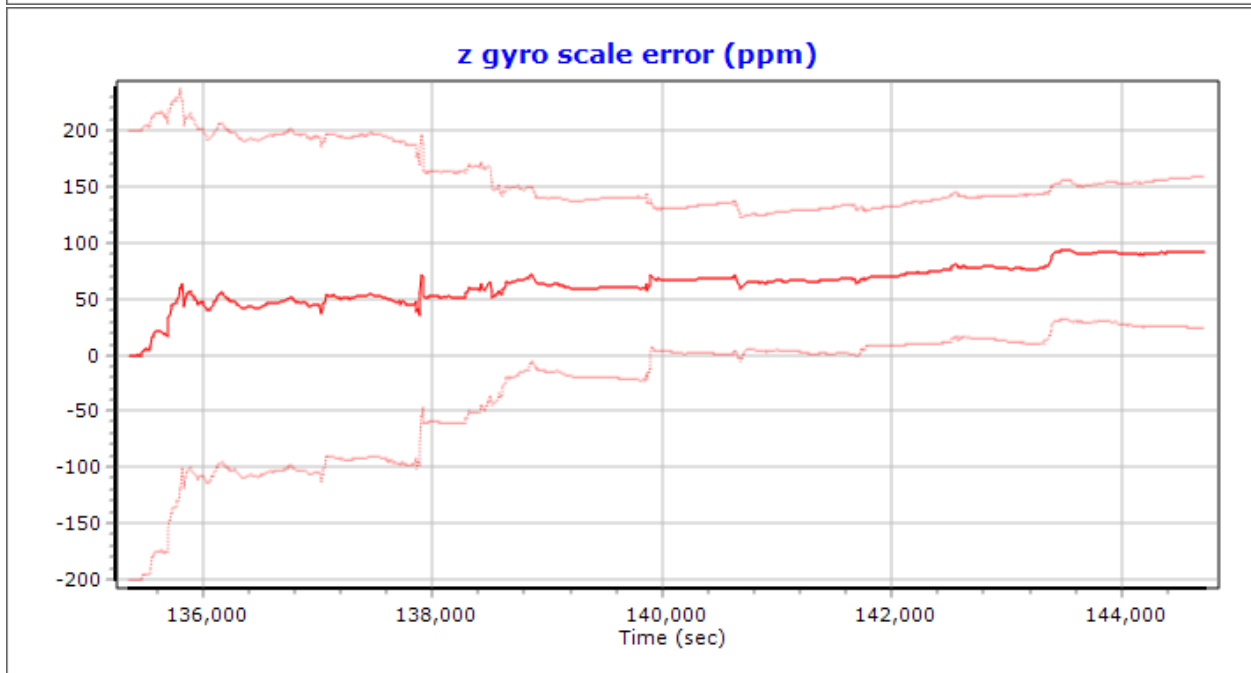
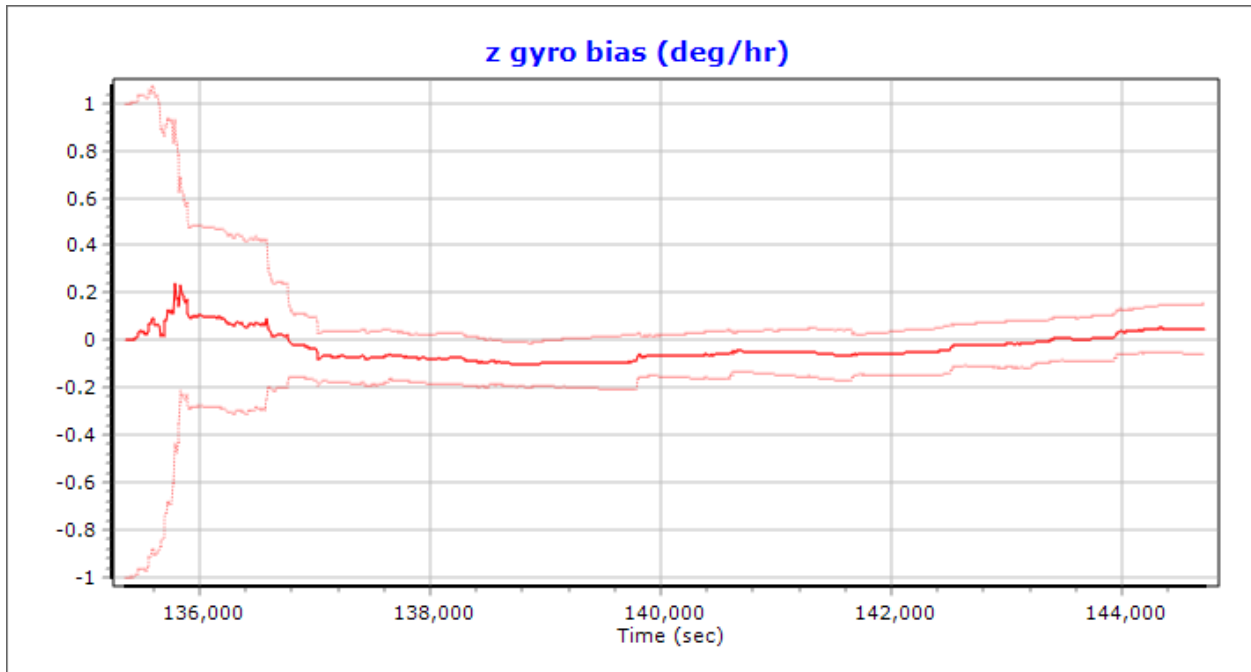


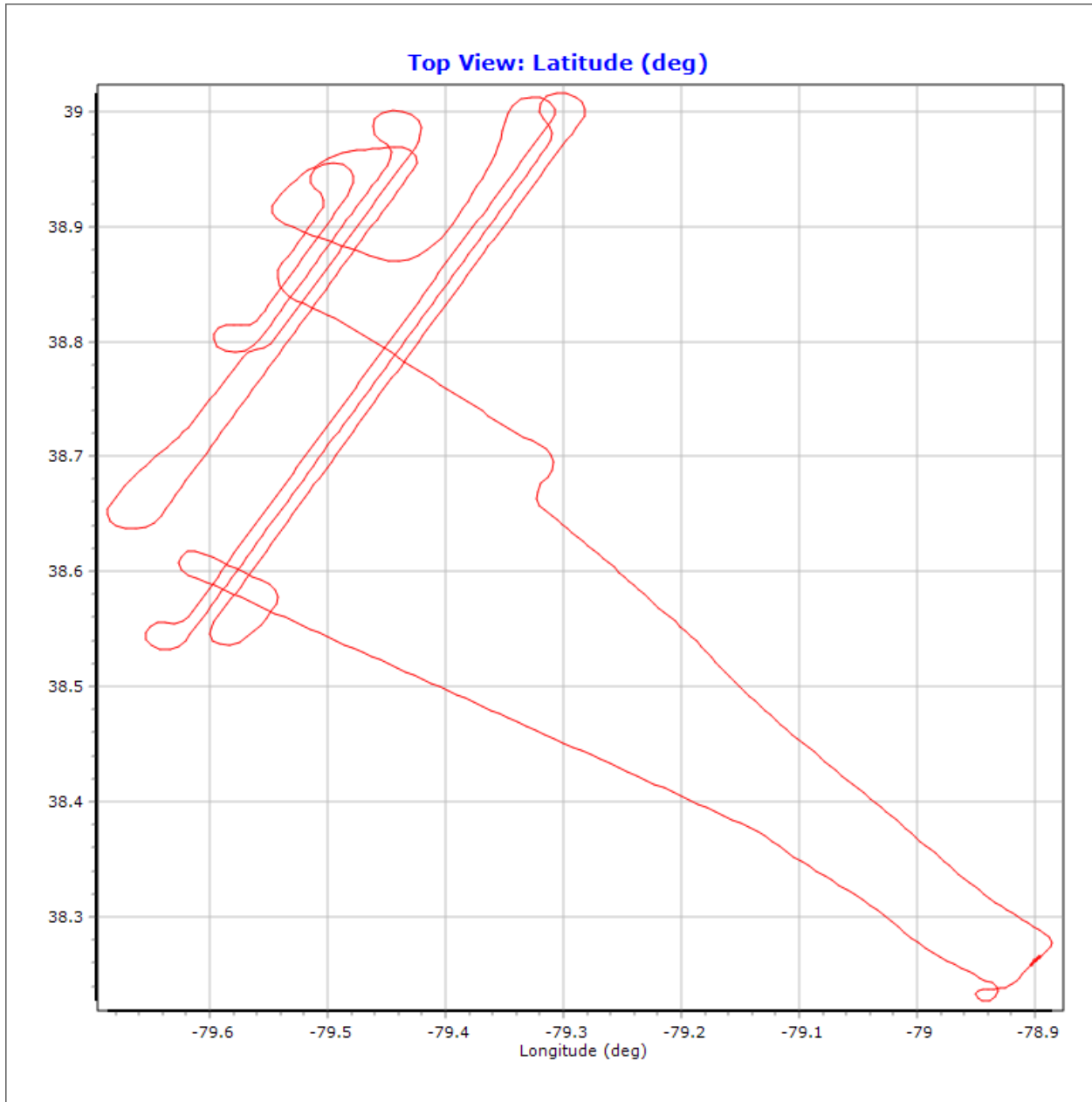


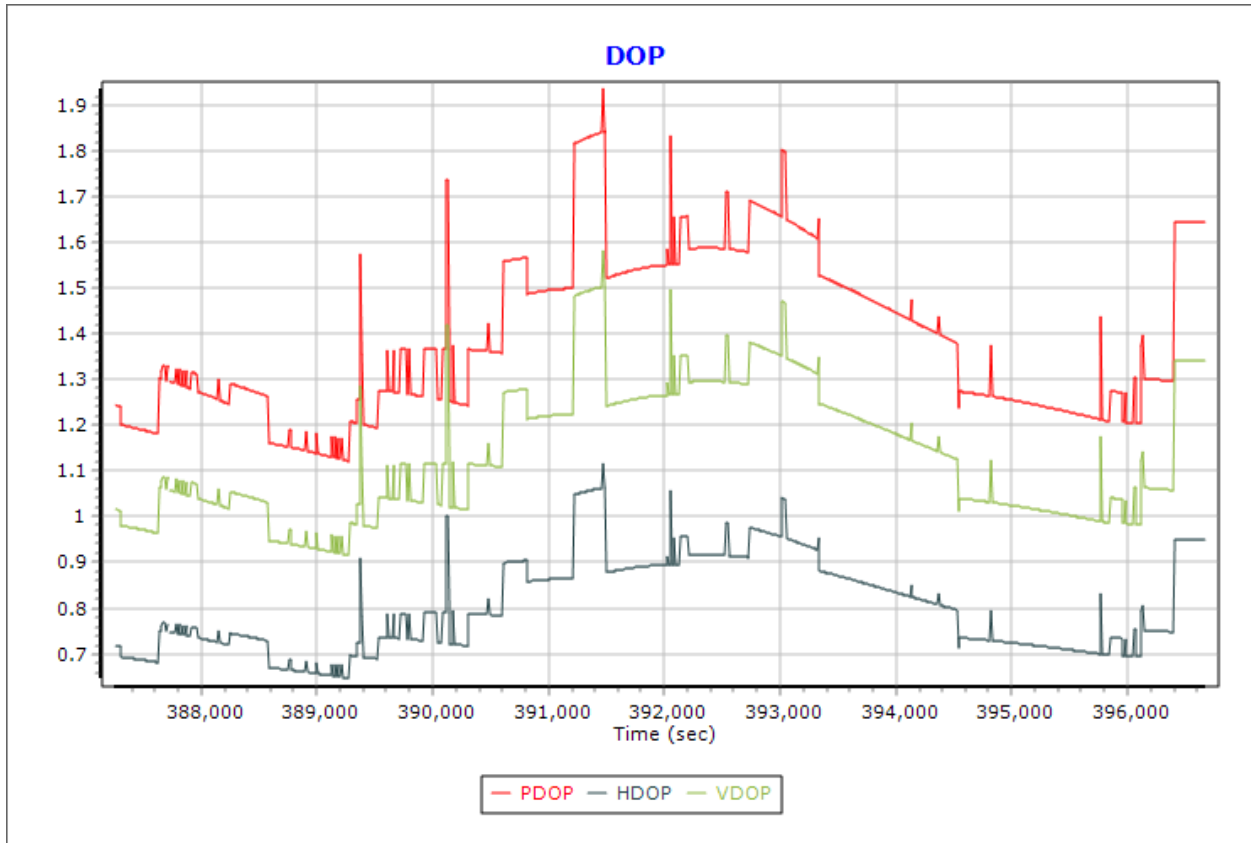


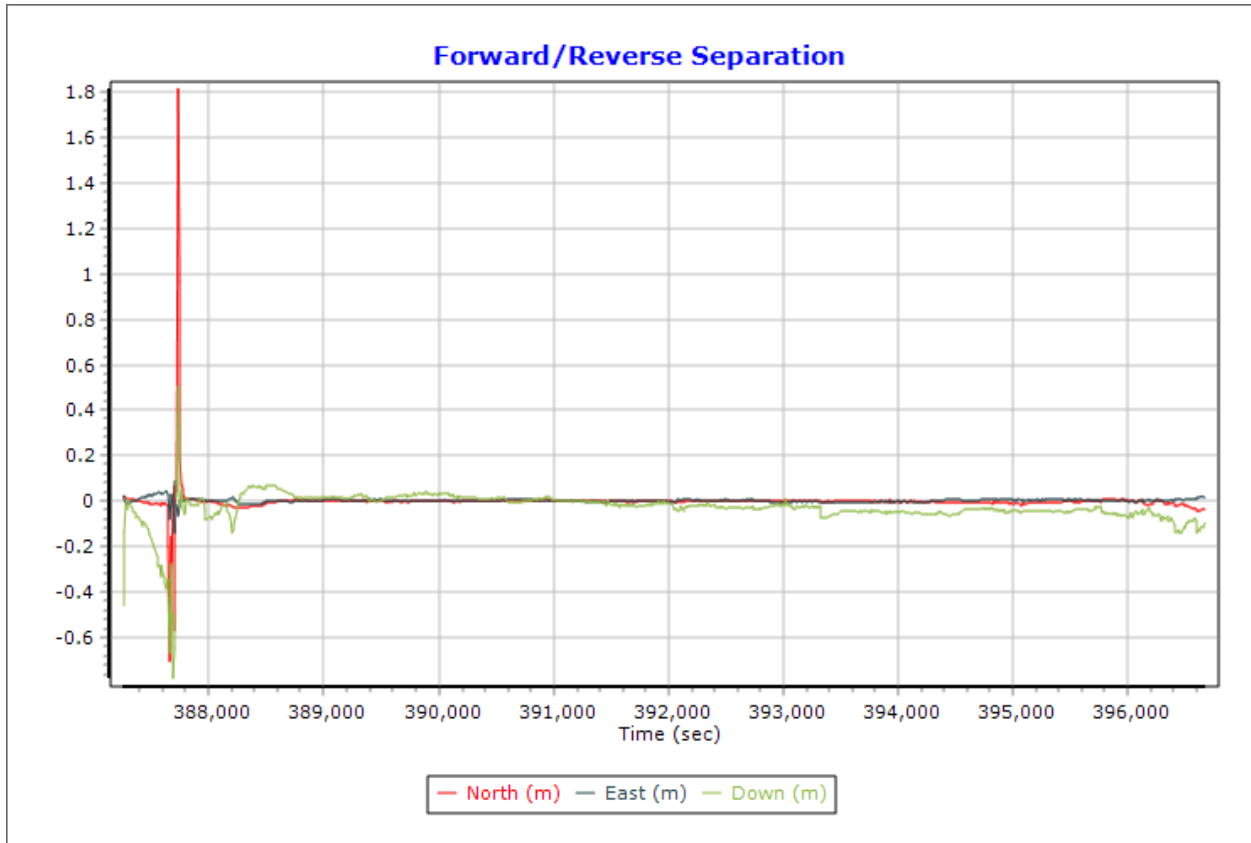


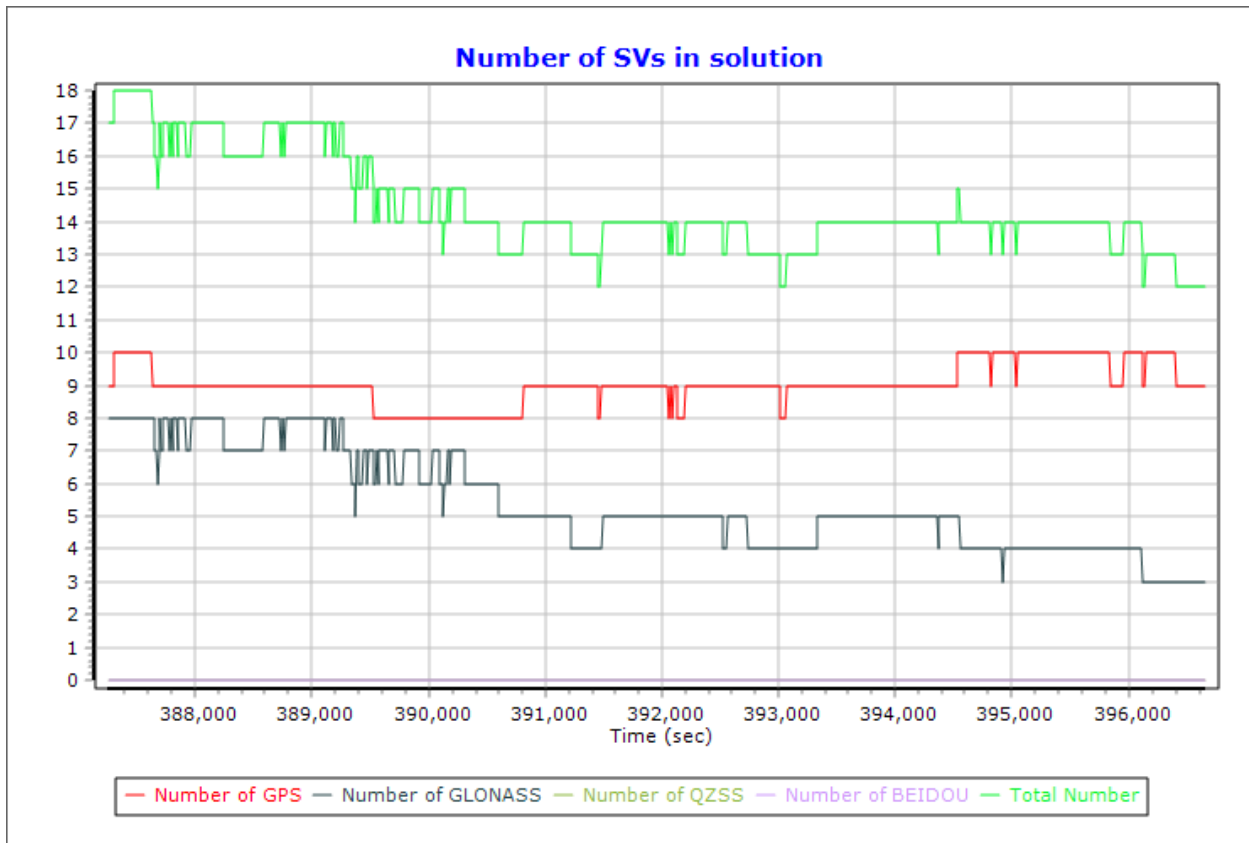












### Processing Summary Information

Program: POSpac MMS

Version: 7.2.5934.15637

Project: \\sa\data\216027\20170413\_WV\_A\05\_INS-GPS\_PROC\01\_POS\20170413\_WV\_A.pospac

Solution Type: IN-Fusion SmartBase

Fixed: 9338 (99.14%)

Float: 80 (0.85%)

No Solution: 1 (0.01%)

Number of Epochs:



Total in RAW file: 9435

No processed position: 16

Fwd/Rev Separation RMS Values (m):

East: 0.010

North: 0.096

Height: 0.080

Fwd/Rev Sep. RMS for 25%-75% weighting (m): 4717 occurrences

East: 0.004

North: 0.002

Height: 0.030

Position Standard Deviation Percentages:

0.00 - 0.10 m: 98.34 %

0.10 - 0.30 m: 1.65 %

0.30 - 1.00 m: 0.01 %

1.00 - 5.00 m: 0.00 %

5.00 m + over: 0.00 %

Percentages of epochs with DD\_DOP over 10.00: 0 %

DOP over Tol: 1.39 %

Baseline Distances (km):

Maximum: 60.45

Minimum: 2.65

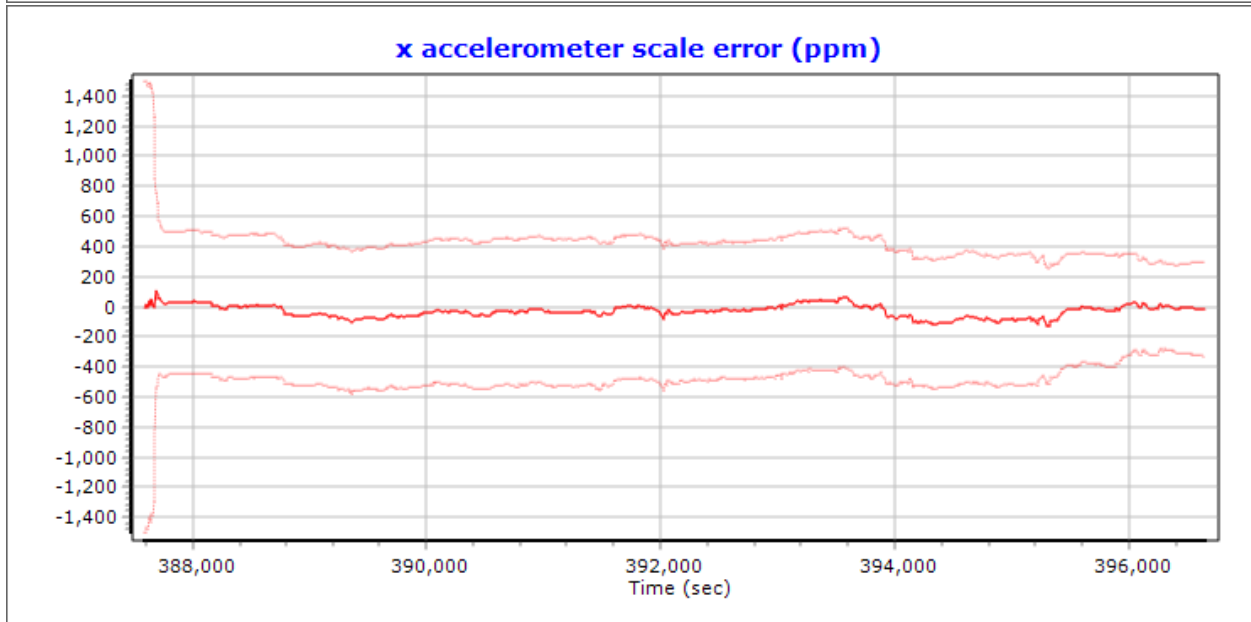
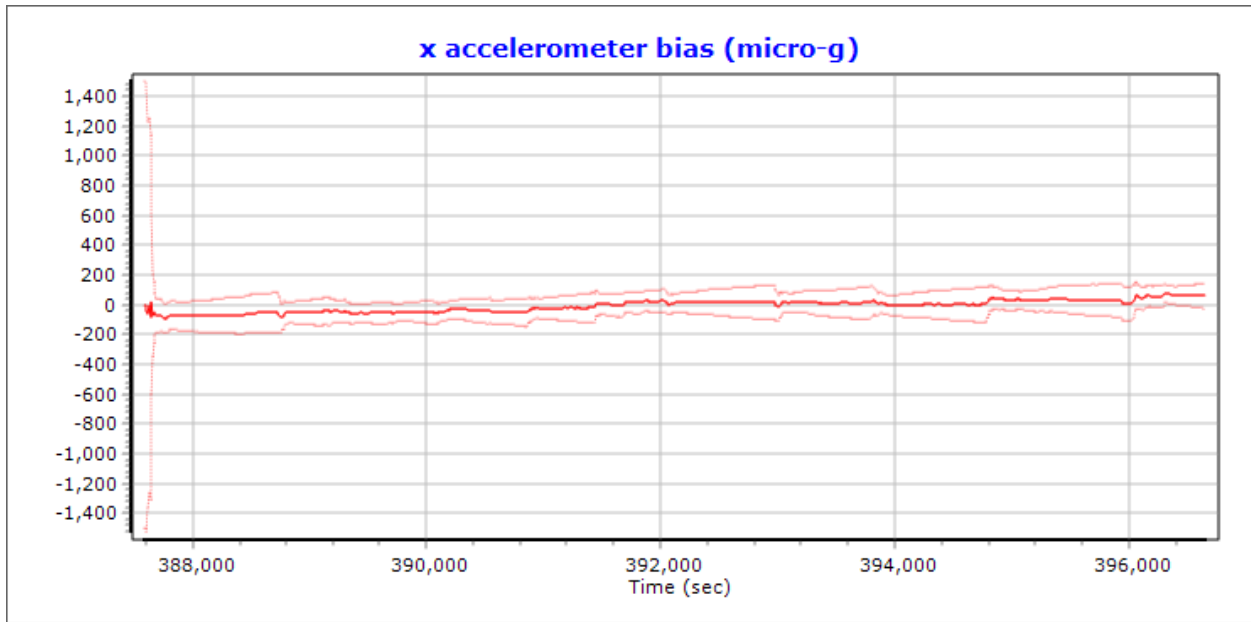
Average: 30.10

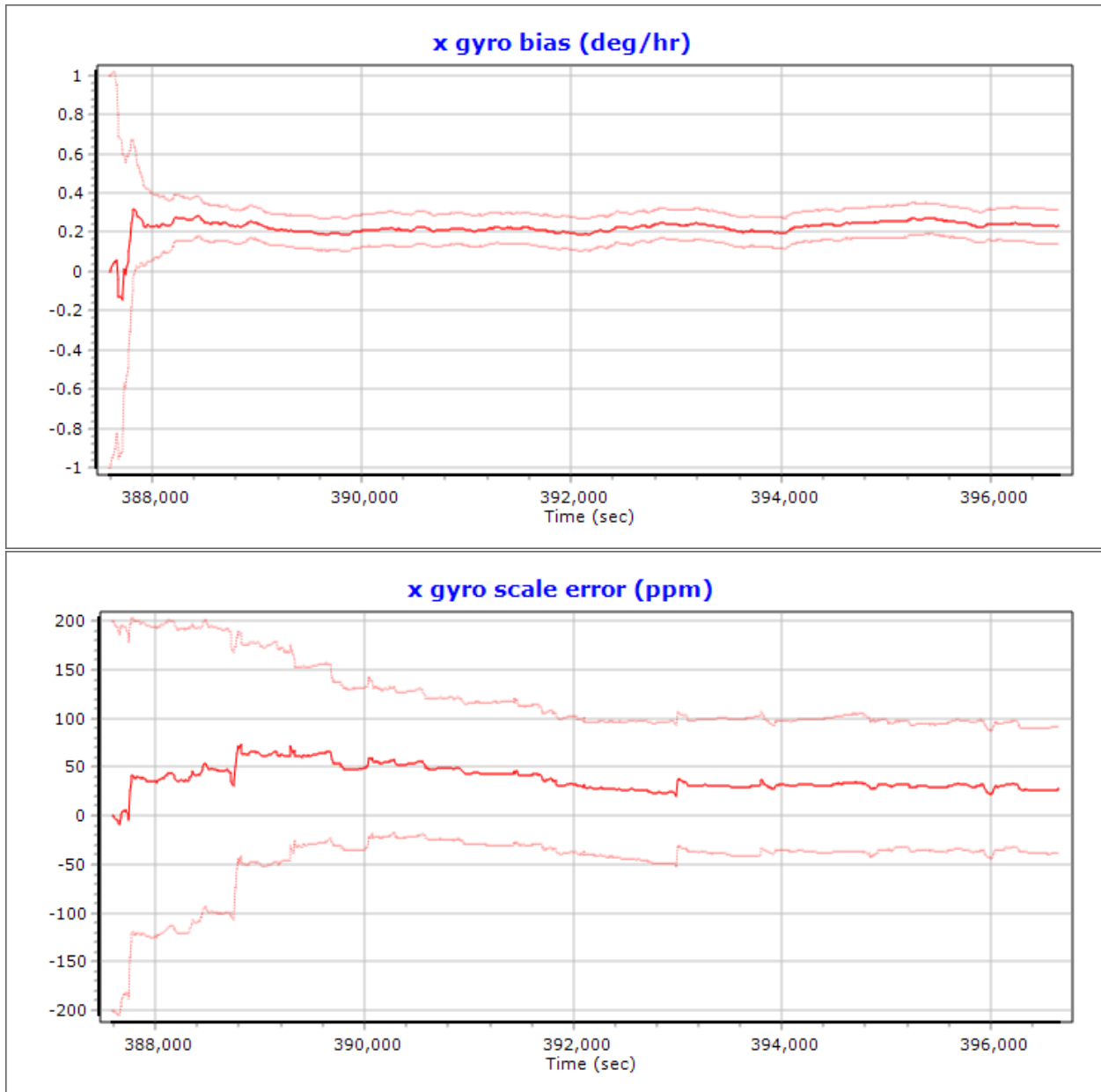
First Epoch: 59.47

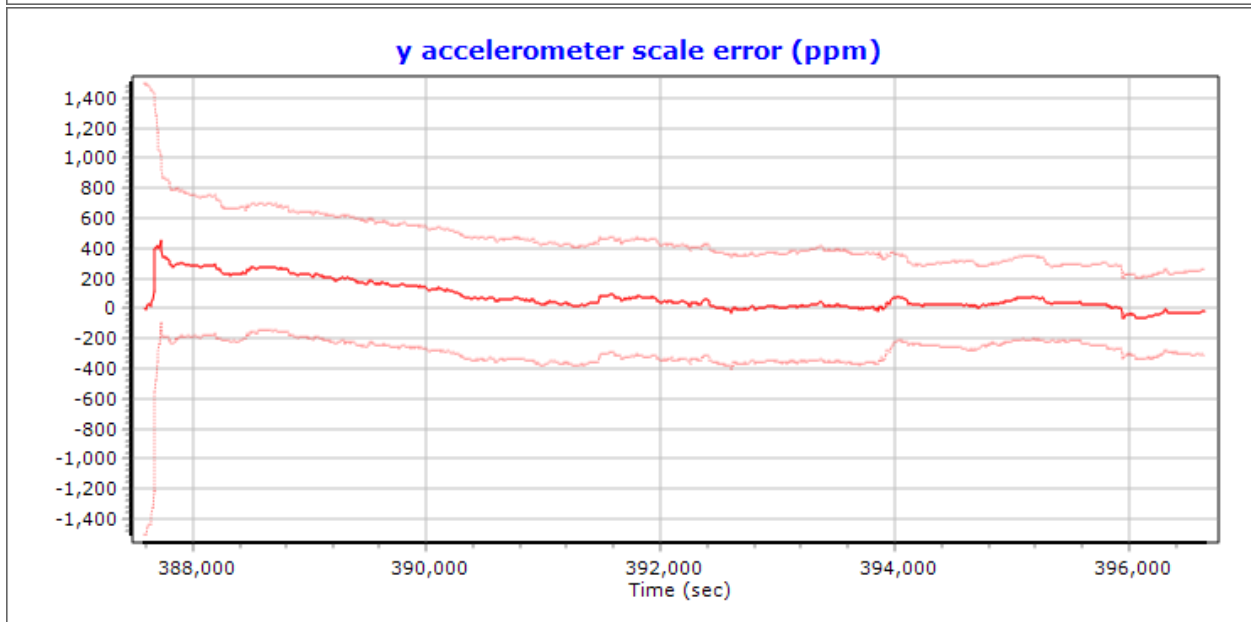
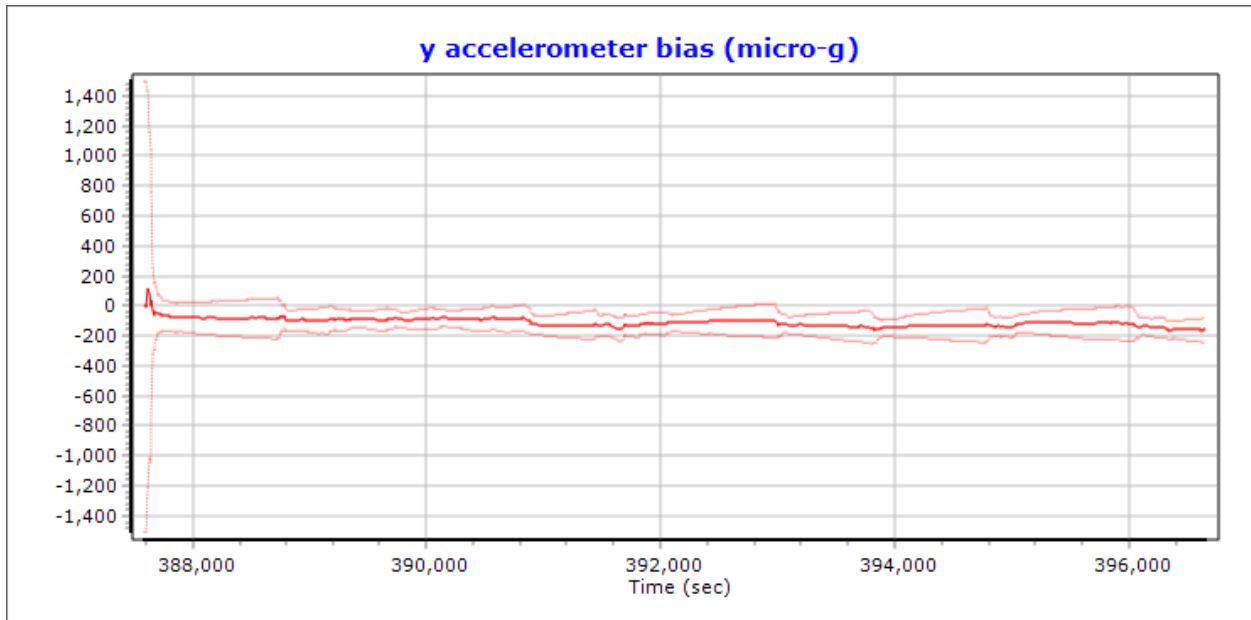
Last Epoch: 59.47

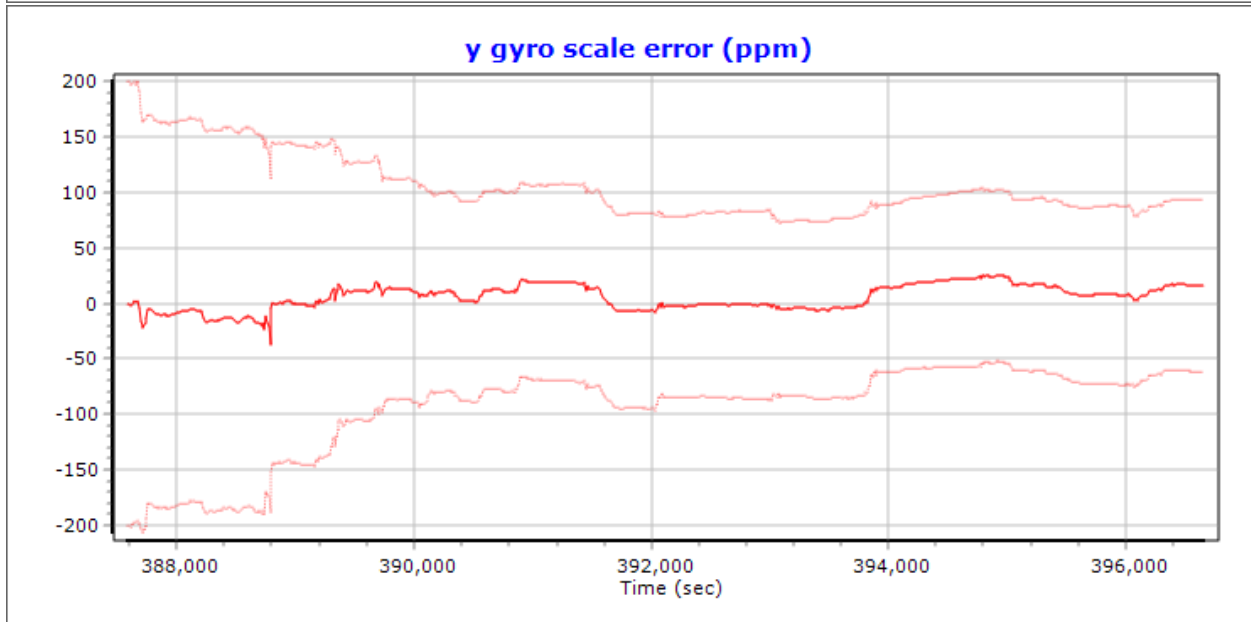
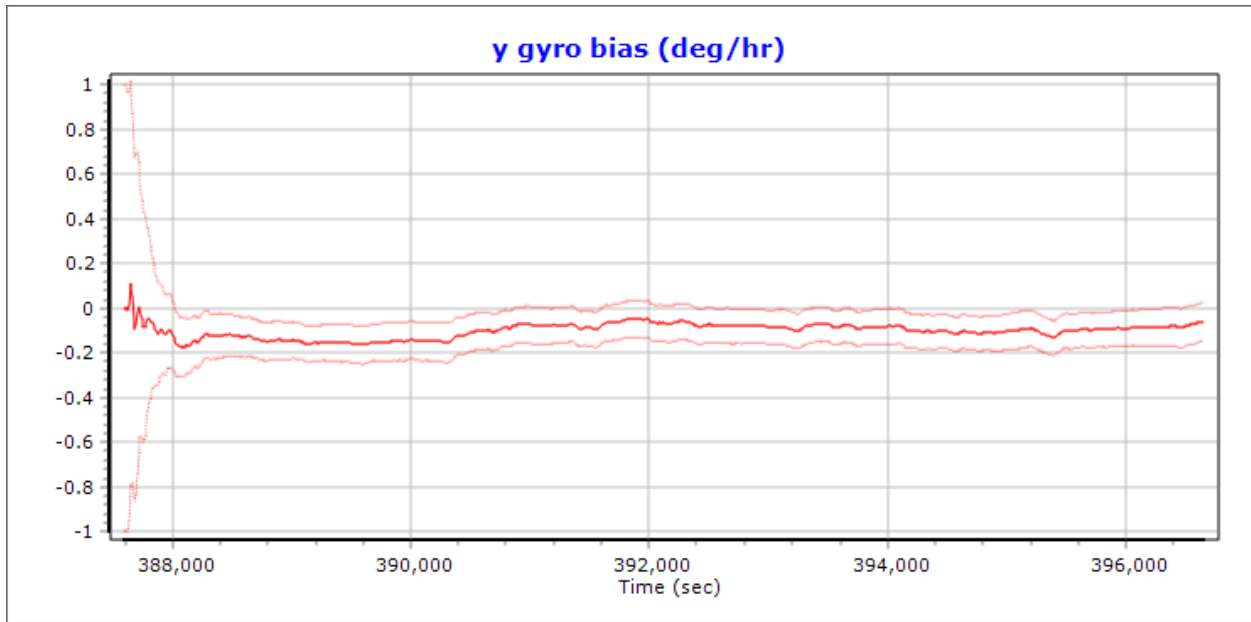
CORS Base Stations

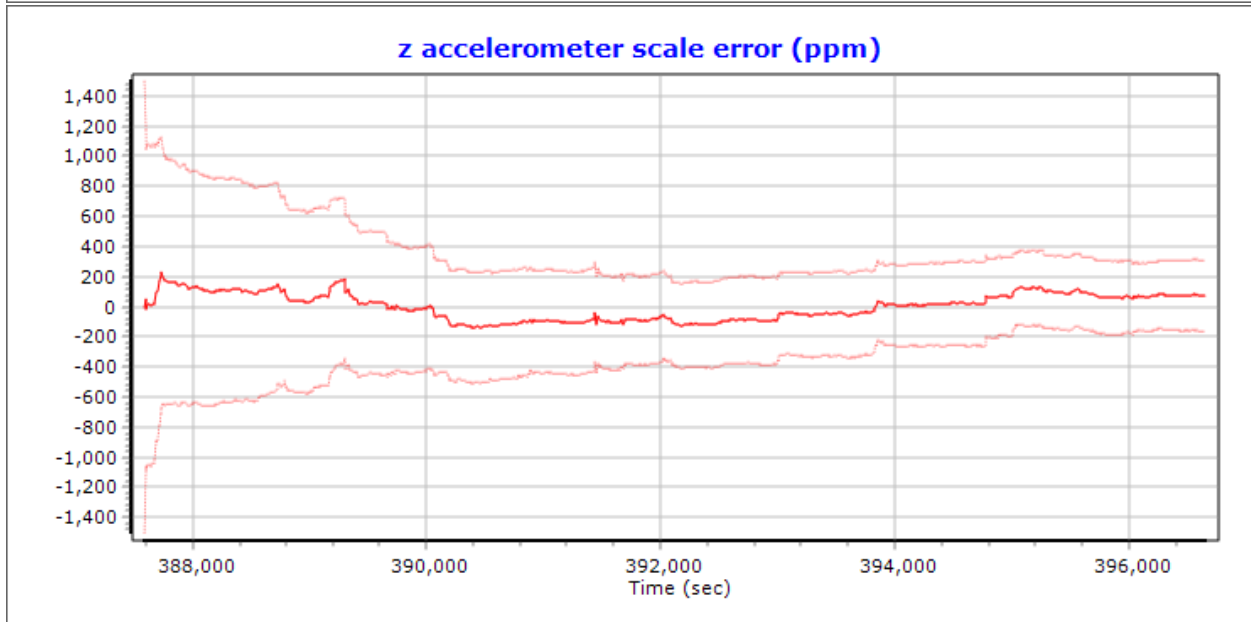
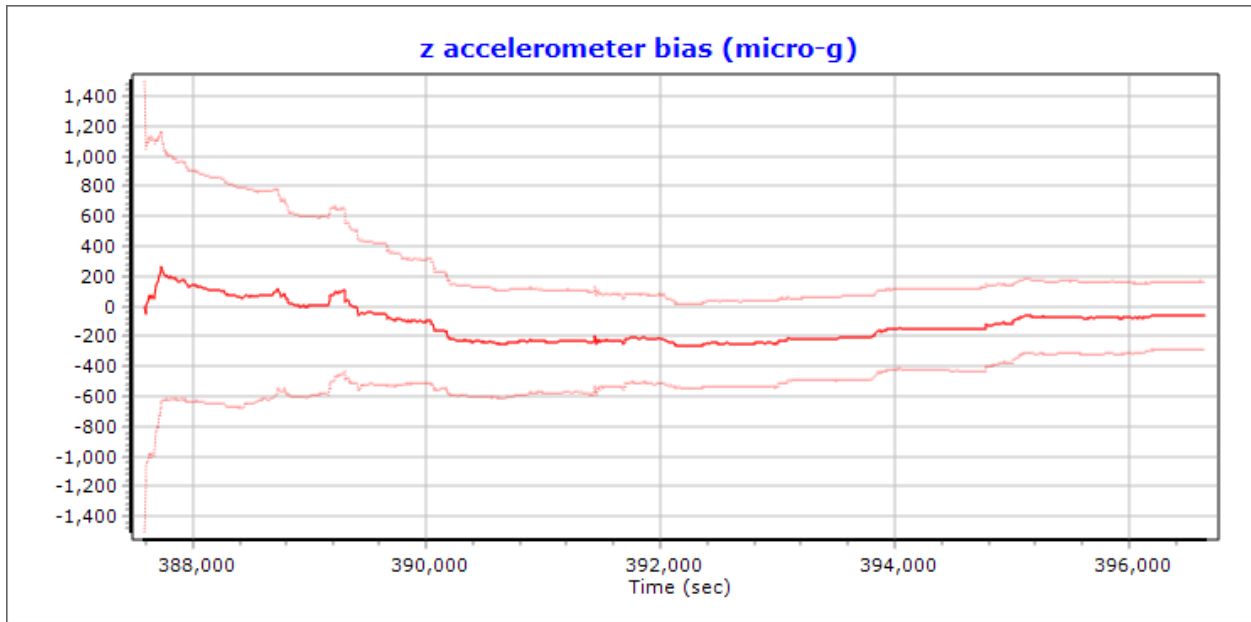
Station	Original (m)			Adjusted (m)		
	Latitude	Longitude	Altitude	Latitude	Longitude	Altitude
WVGB	N38°25'48.45411"	W79°49'01.32001"	811.187	N38°25'48.45447"	W79°49'01.32037"	811.181
WVCV	N39°00'55.10521"	W79°27'25.03373"	967.96	N39°00'55.10521"	W79°27'25.03373"	967.96
WVBU	N39°20'16.85132"	W78°54'48.61089"	198.786	N39°20'16.85196"	W78°54'48.61181"	198.794
WVBR	N39°18'28.91344"	W80°16'38.64420"	268.986	N39°18'28.91402"	W80°16'38.64532"	268.999
UVFM	N37°52'43.49372"	W78°41'37.27121"	512.94	N37°52'43.49433"	W78°41'37.27214"	512.95
LOYY	N38°53'18.57664"	W78°29'56.96655"	220.904	N38°53'18.57751"	W78°29'56.96736"	220.913
LOYJ	N38°28'20.92225"	W78°00'36.16912"	103.853	N38°28'20.92309"	W78°00'36.16963"	103.868
LOYI	N38°01'59.45428"	W78°30'42.43166"	154.965	N38°01'59.45501"	W78°30'42.43254"	154.967
LOYC	N39°07'12.57576"	W78°12'02.63191"	201.807	N39°07'12.57648"	W78°12'02.63292"	201.84
ALLG	N39°39'13.91863"	W78°43'50.52713"	174.48	N39°39'13.91944"	W78°43'50.52799"	174.5

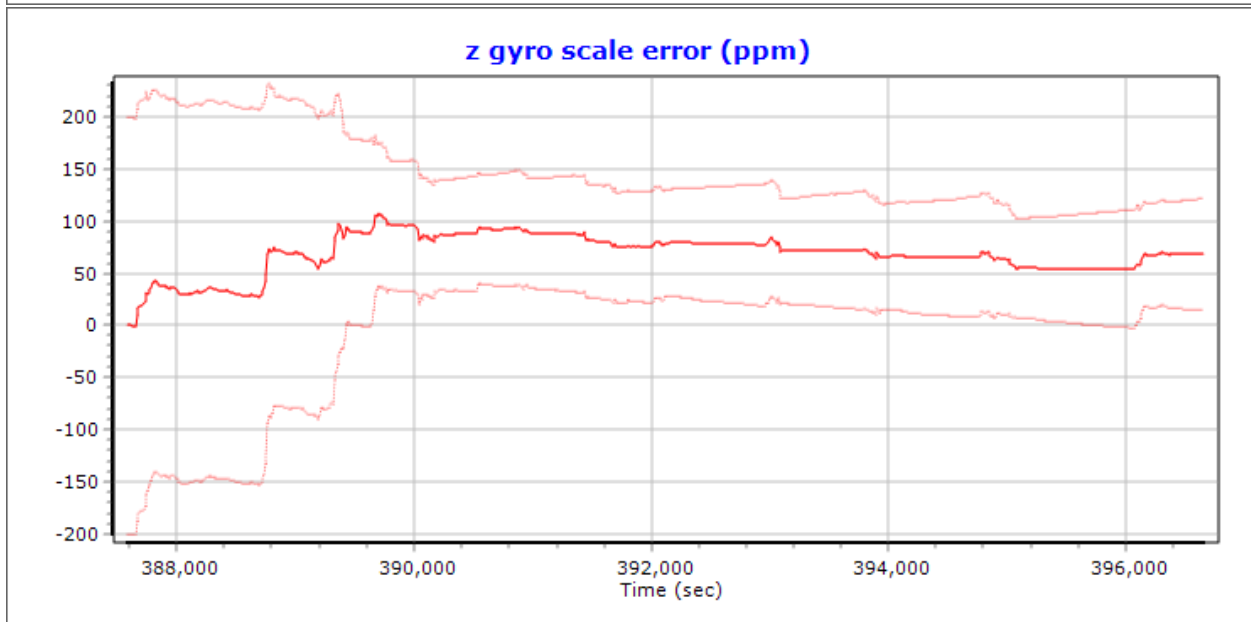
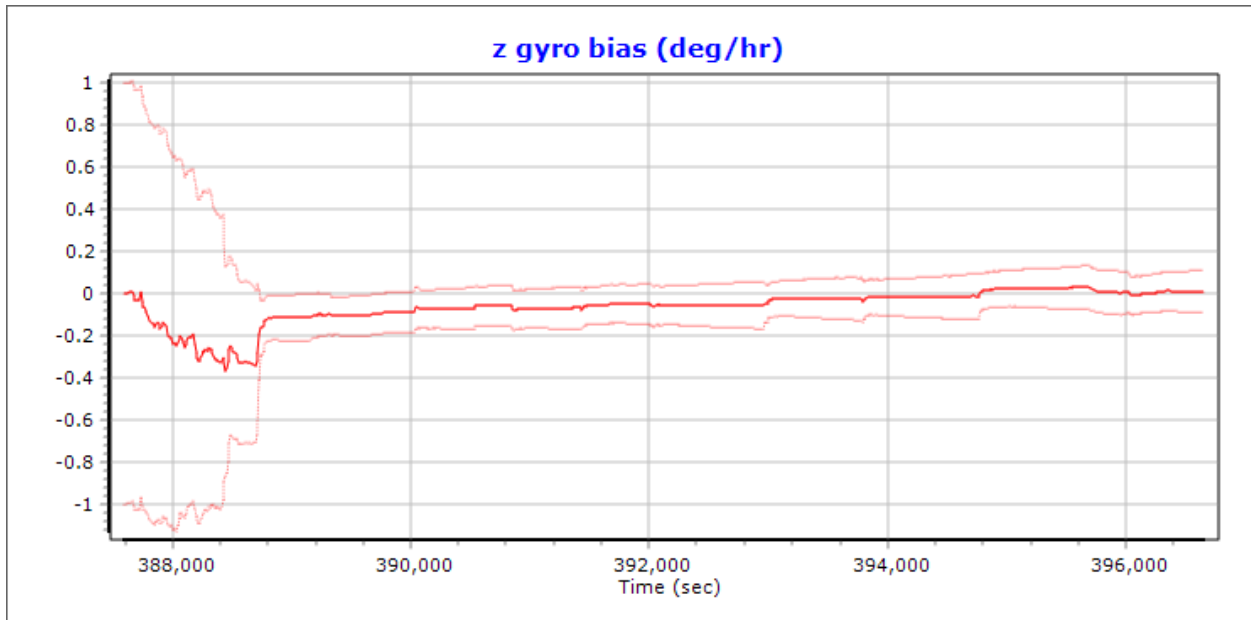




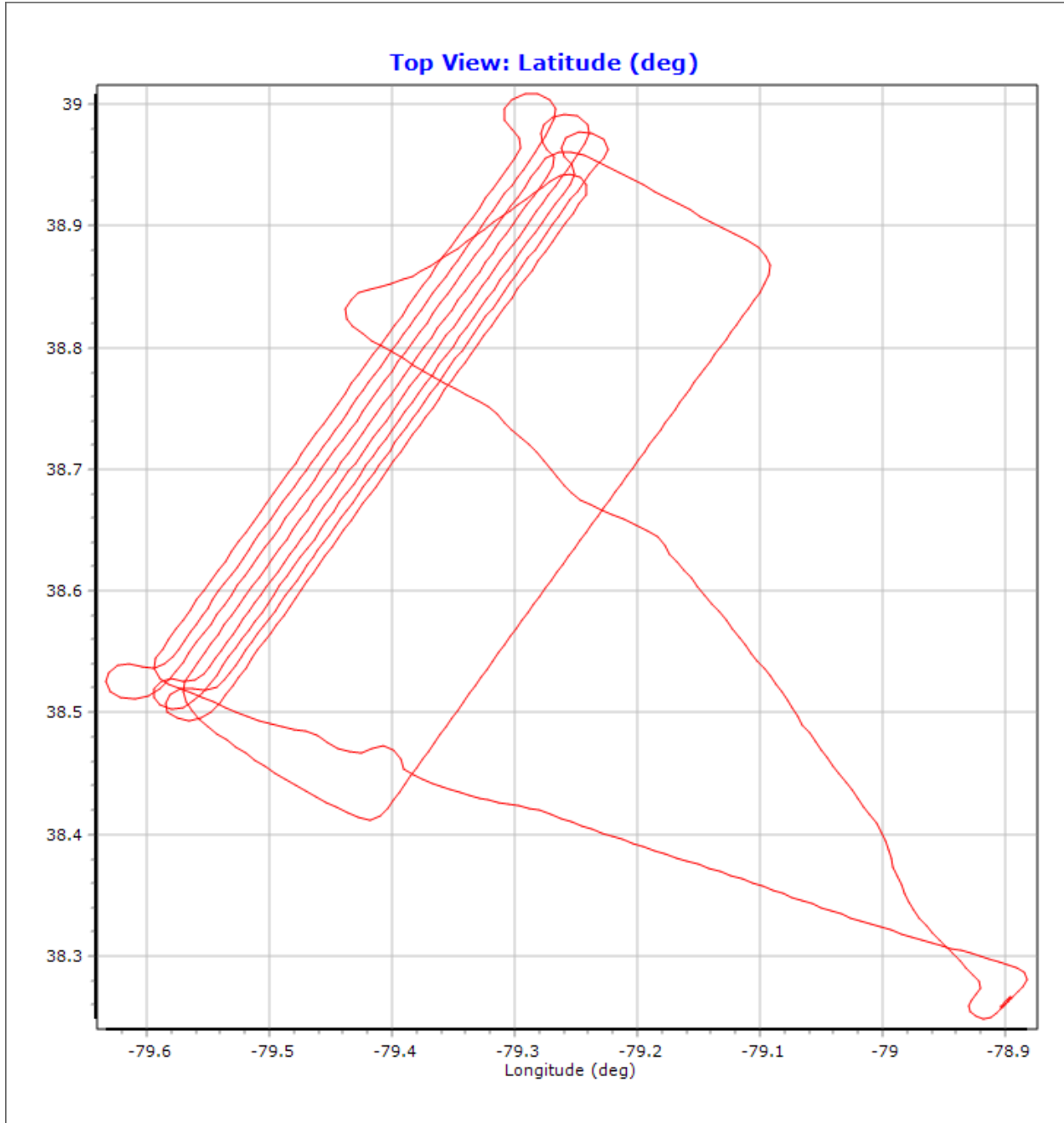


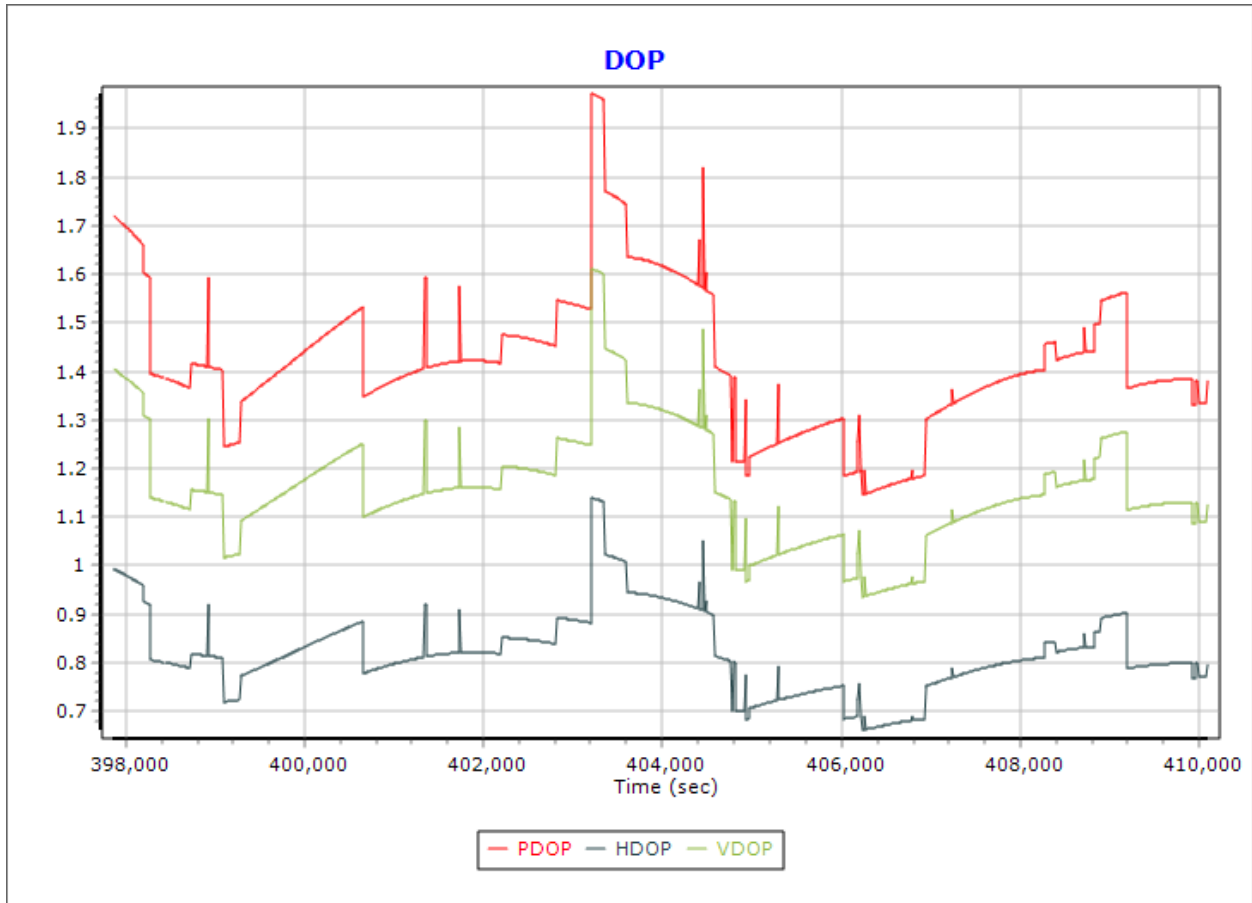


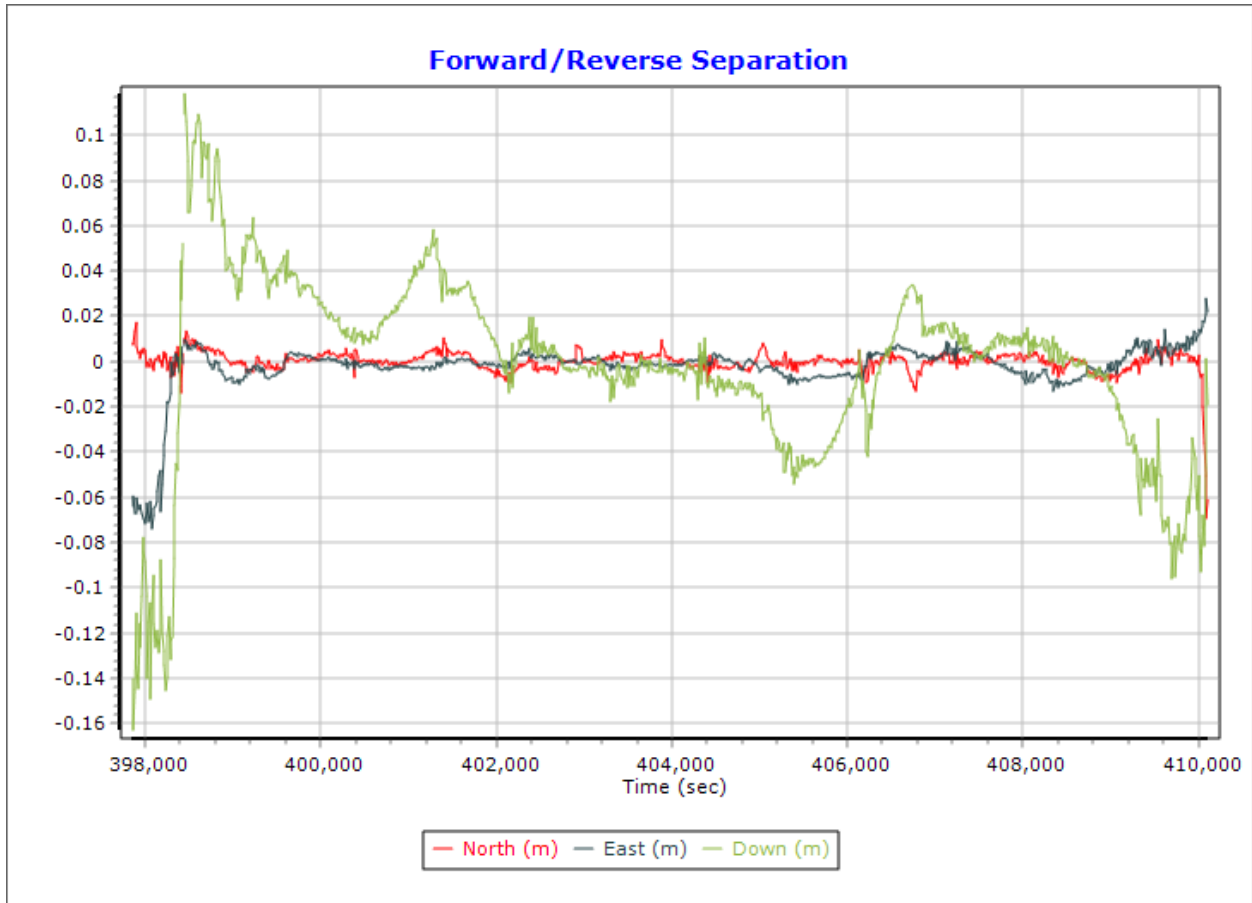


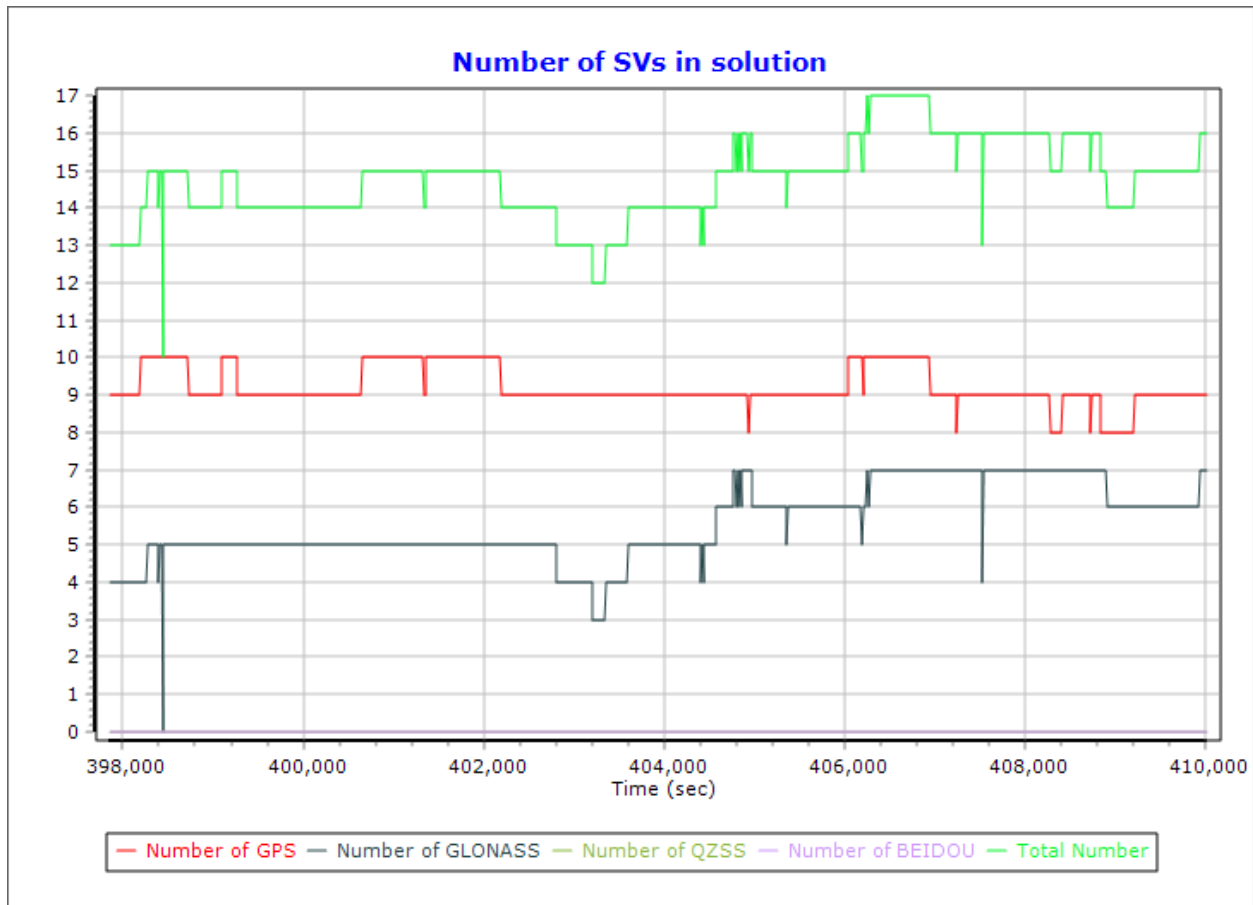












### Processing Summary Information

Program: POSpac MMS

Version: 7.2.5934.15637

Project: \\sa\data\216027\20170413\_WV\_B\05\_INS-GPS\_PROC\01\_POS\20170413\_WV\_B.pospac

Solution Type: IN-Fusion SmartBase

Fixed: 12183 (99.99%)

Float: 0 (0.00%)

No Solution: 1 (0.01%)

Number of Epochs:

Total in RAW file: 12280

No processed position: 97

Fwd/Rev Separation RMS Values (m):

East: 0.012

North: 0.005

Height: 0.040

Fwd/Rev Sep. RMS for 25%-75% weighting (m): 6139 occurrences

East: 0.004

North: 0.003

Height: 0.023

Position Standard Deviation Percentages:

0.00 - 0.10 m: 99.55 %

0.10 - 0.30 m: 0.45 %

0.30 - 1.00 m: 0.00 %

1.00 - 5.00 m: 0.00 %

5.00 m + over: 0.00 %

Percentages of epochs with DD\_DOP over 10.00: 0 %

DOP over Tol: 1.42 %

Baseline Distances (km):

Maximum: 55.26

Minimum: 4.29

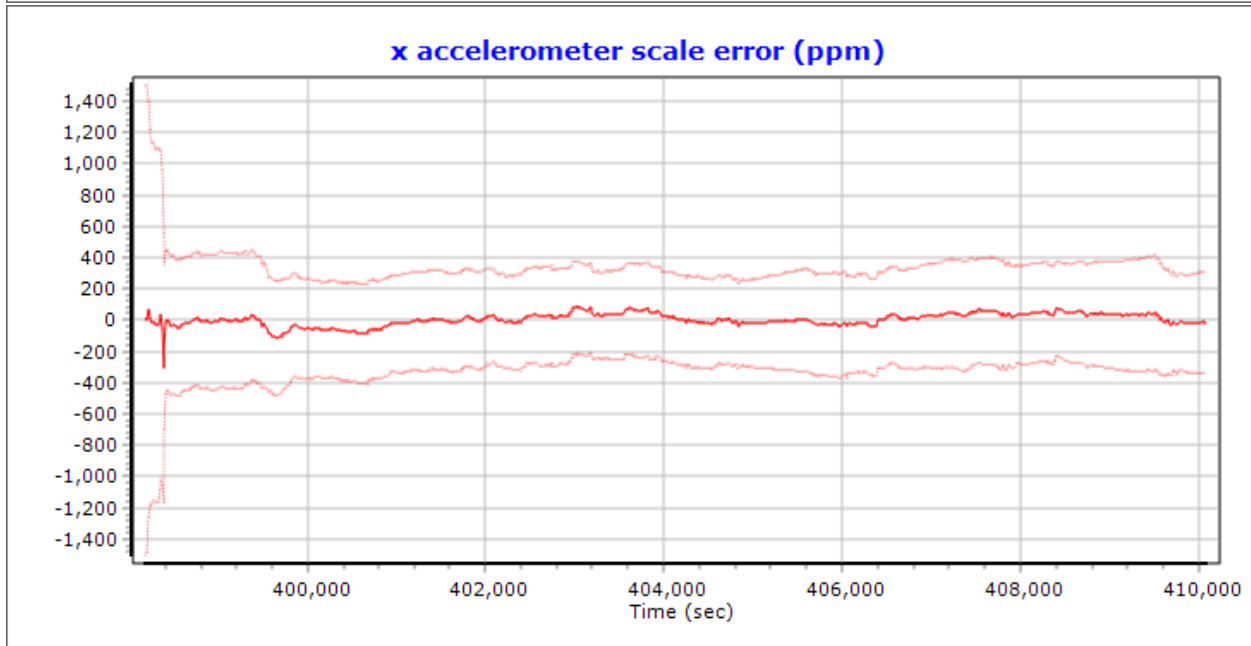
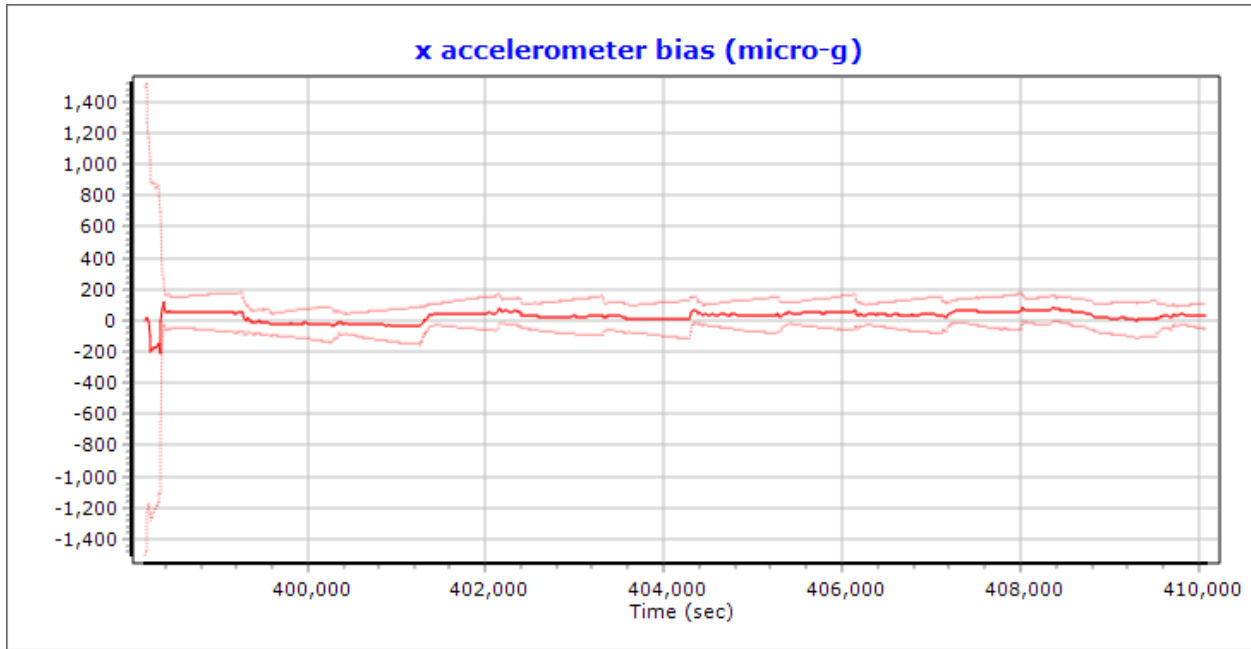
Average: 26.25

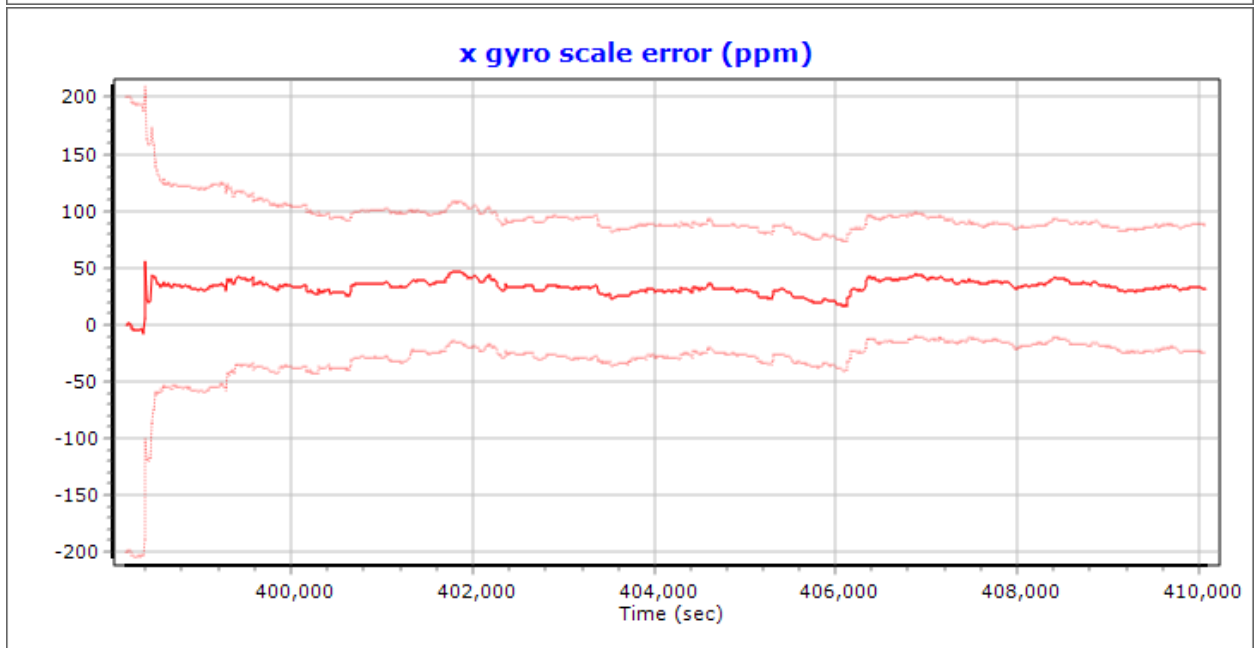
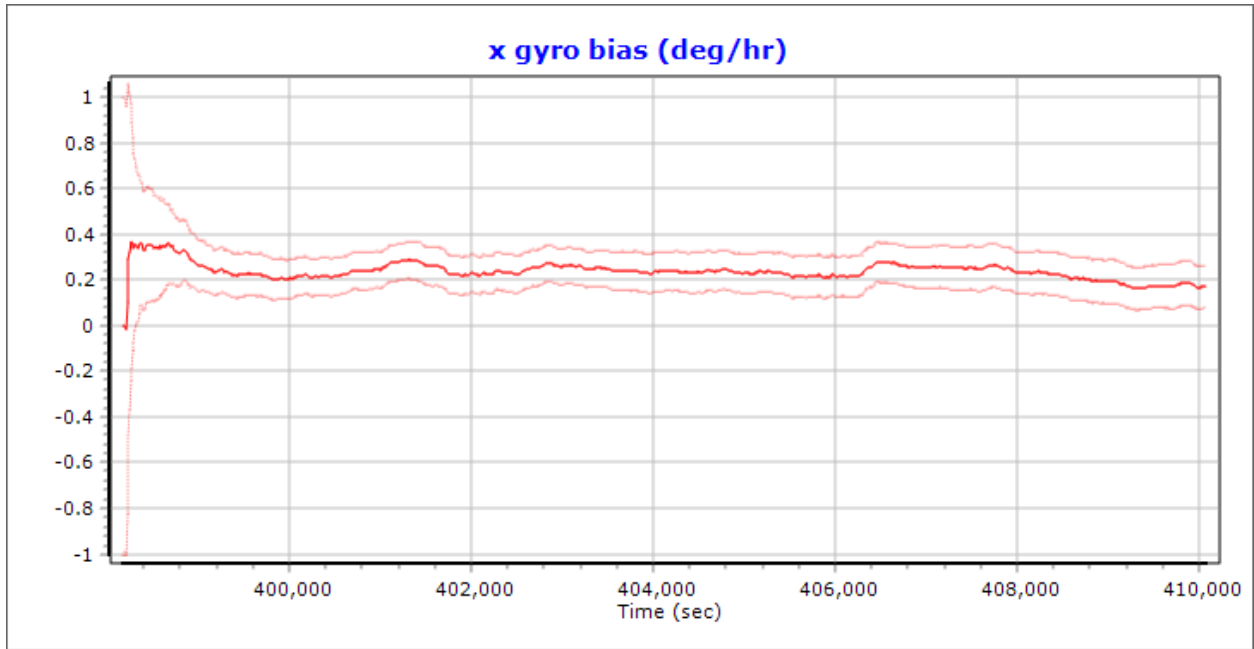
First Epoch: 54.75

Last Epoch: 54.75

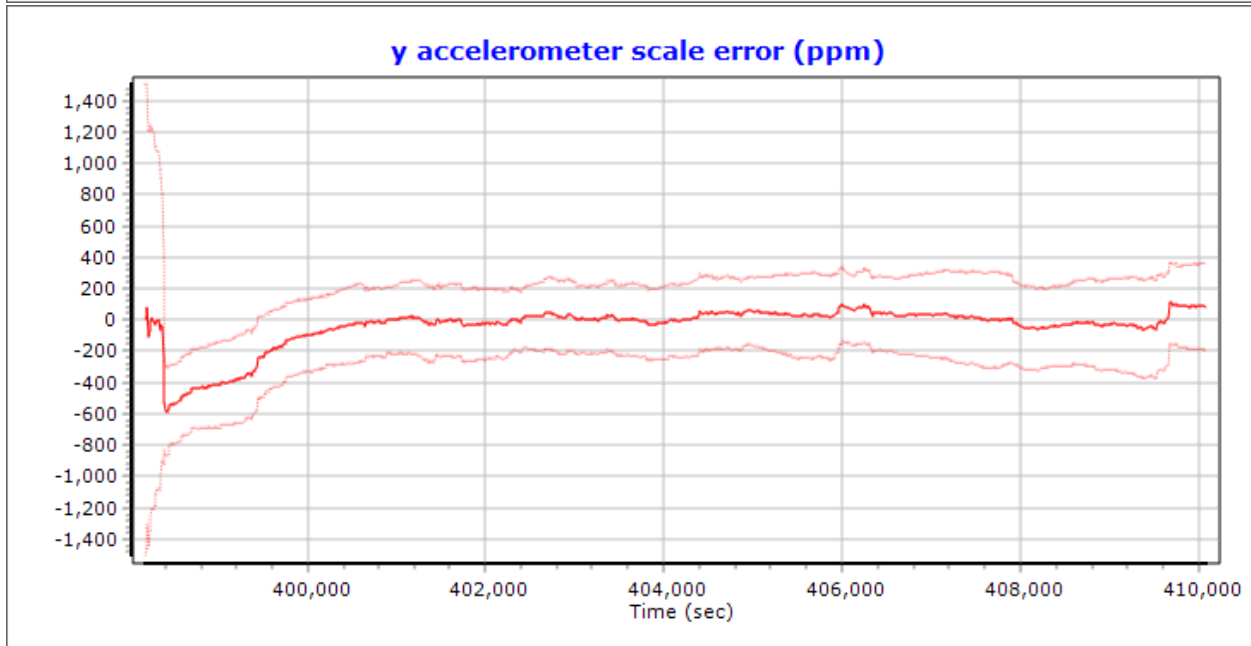
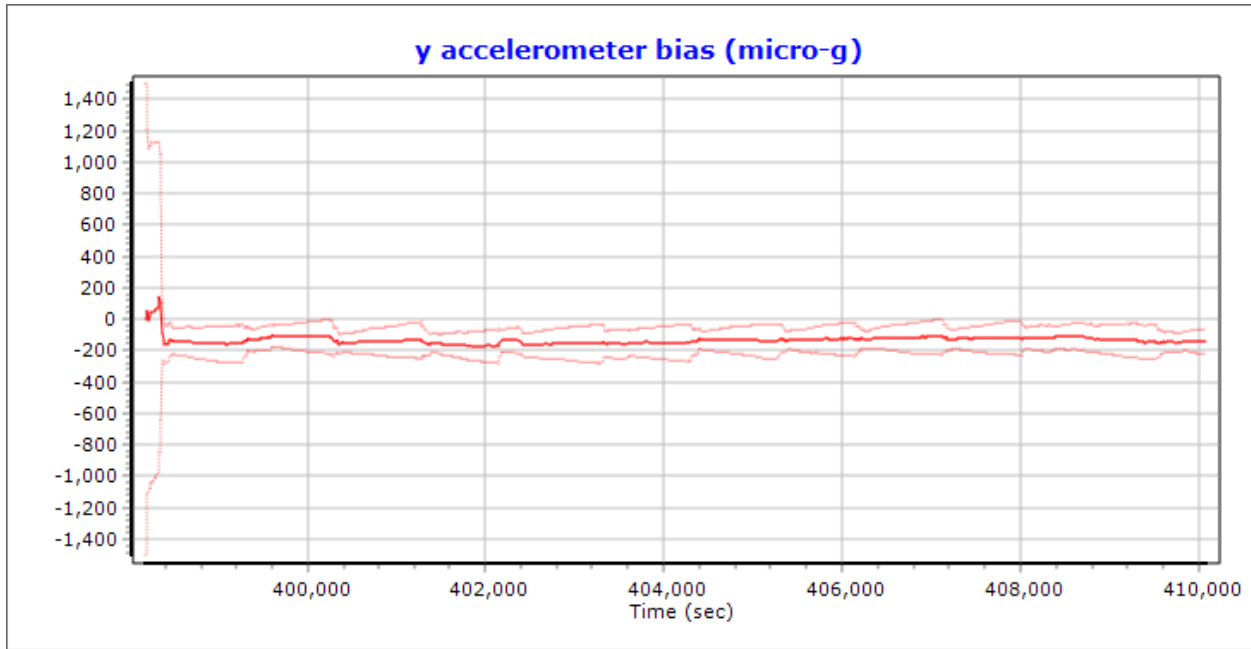
CORS Base Stations

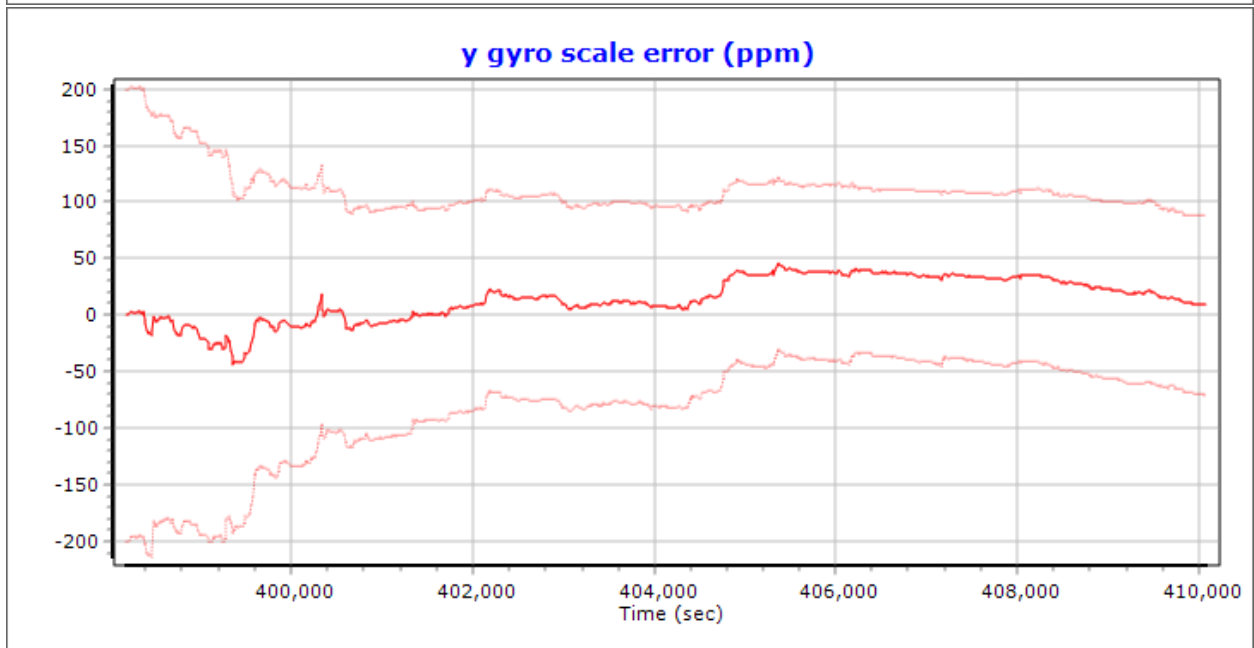
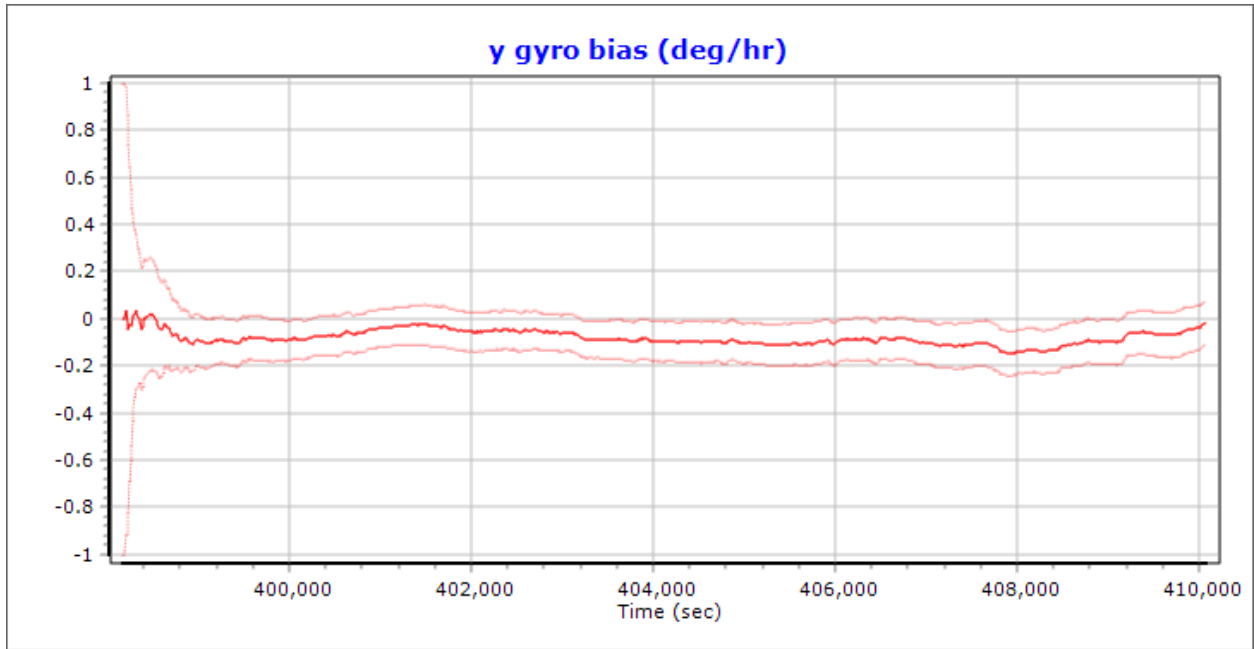
Station	Original (m)			Adjusted (m)		
	Latitude	Longitude	Altitude	Latitude	Longitude	Altitude
WVNR	N38°53'44.53460"	W79°51'30.29515"	581.507	N38°53'44.53517"	W79°51'30.29553"	581.502
WVMF	N39°04'32.37375"	W78°55'57.02186"	312.272	N39°04'32.37463"	W78°55'57.02272"	312.273
WVGB	N38°25'48.45401"	W79°49'01.31943"	811.181	N38°25'48.45448"	W79°49'01.32037"	811.179
WVCV	N39°00'55.10521"	W79°27'25.03373"	967.96	N39°00'55.10521"	W79°27'25.03373"	967.96
WVBU	N39°20'16.85132"	W78°54'48.61089"	198.786	N39°20'16.85196"	W78°54'48.61182"	198.793
WVBR	N39°18'28.91344"	W80°16'38.64420"	268.986	N39°18'28.91402"	W80°16'38.64531"	268.999
UVFM	N37°52'43.49372"	W78°41'37.27121"	512.94	N37°52'43.49435"	W78°41'37.27214"	512.949
LOYY	N38°53'18.57664"	W78°29'56.96655"	220.904	N38°53'18.57751"	W78°29'56.96738"	220.912
LOYJ	N38°28'20.92225"	W78°00'36.16912"	103.853	N38°28'20.92310"	W78°00'36.16965"	103.866
LOYI	N38°01'59.45428"	W78°30'42.43166"	154.965	N38°01'59.45502"	W78°30'42.43255"	154.965
LOYC	N39°07'12.57576"	W78°12'02.63191"	201.807	N39°07'12.57648"	W78°12'02.63294"	201.838
LOYA	N38°25'33.92921"	W78°53'21.79774"	363.919	N38°25'33.92997"	W78°53'21.79857"	363.973
ALLG	N39°39'13.91863"	W78°43'50.52713"	174.48	N39°39'13.91943"	W78°43'50.52798"	174.5

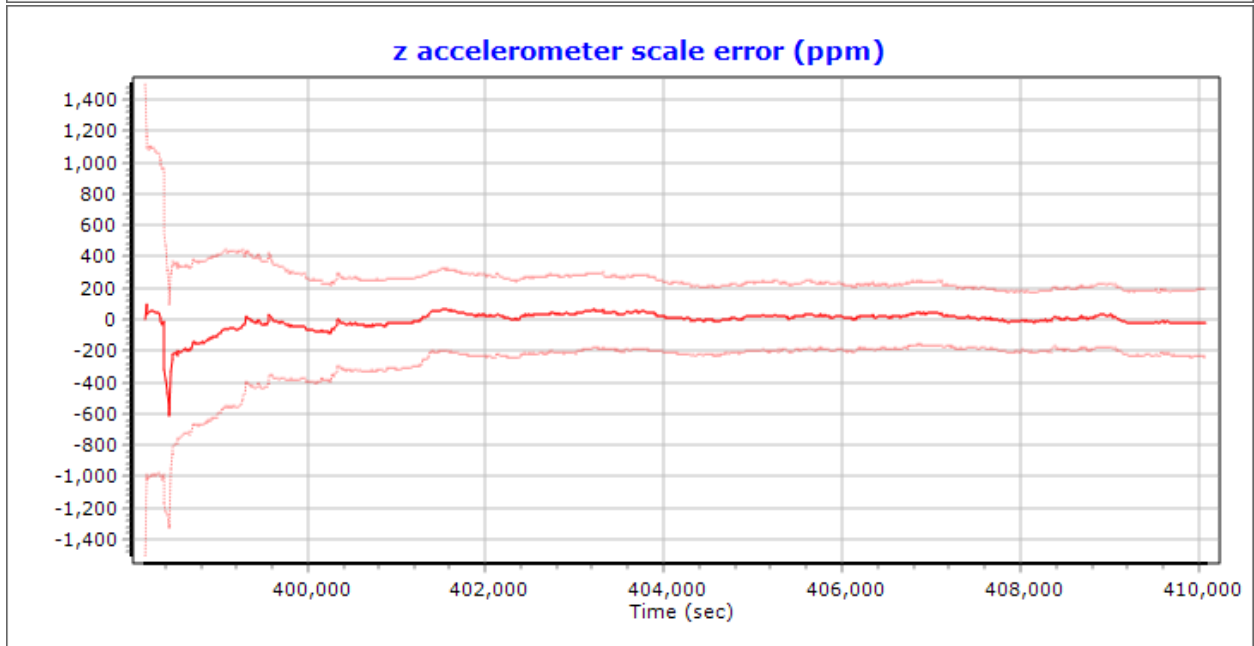
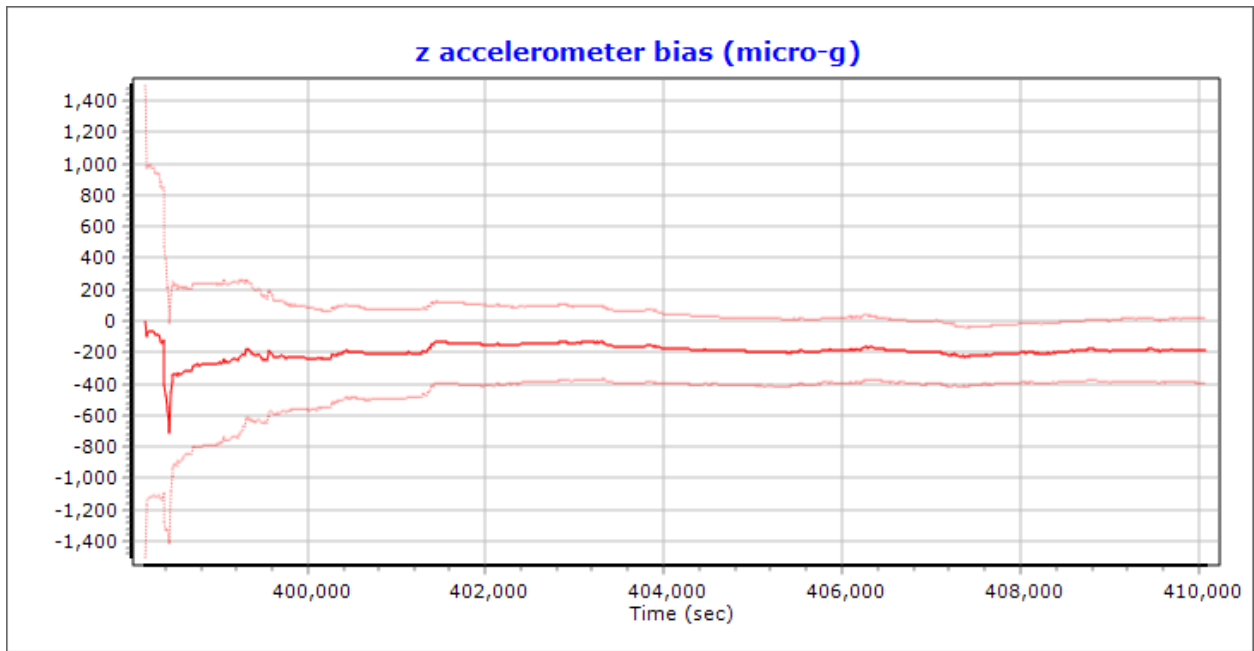


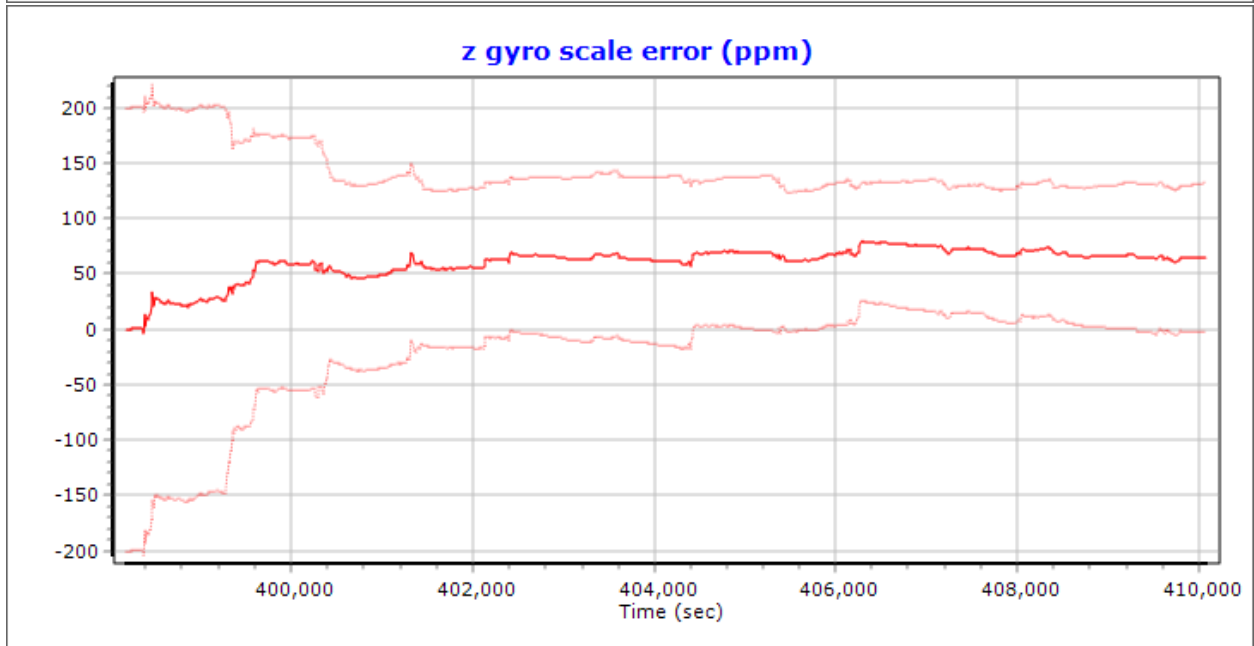
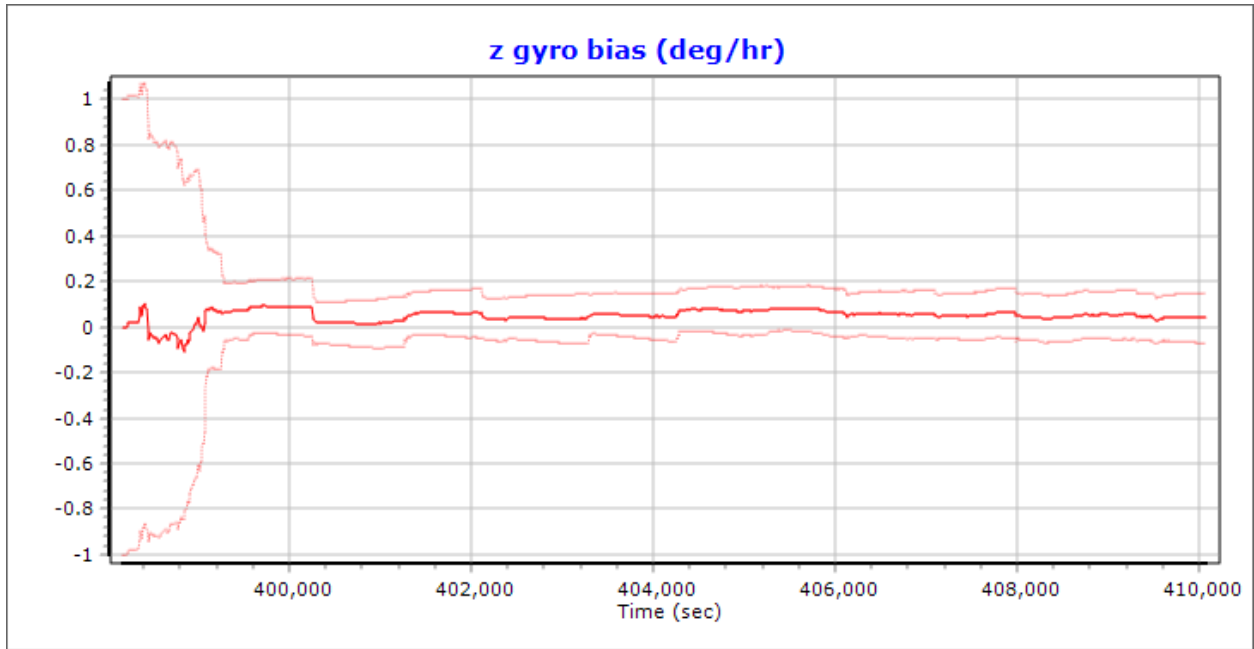


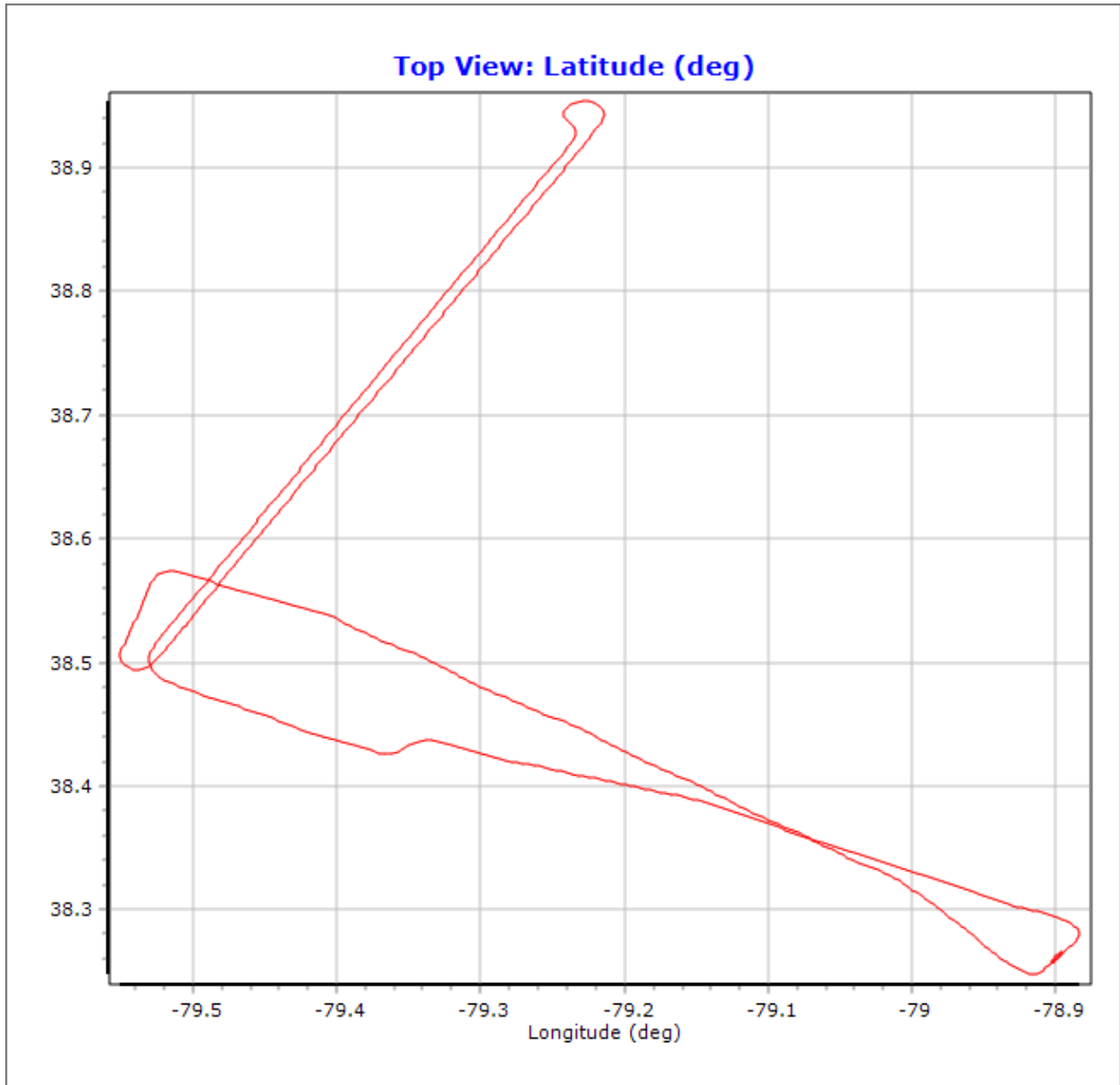


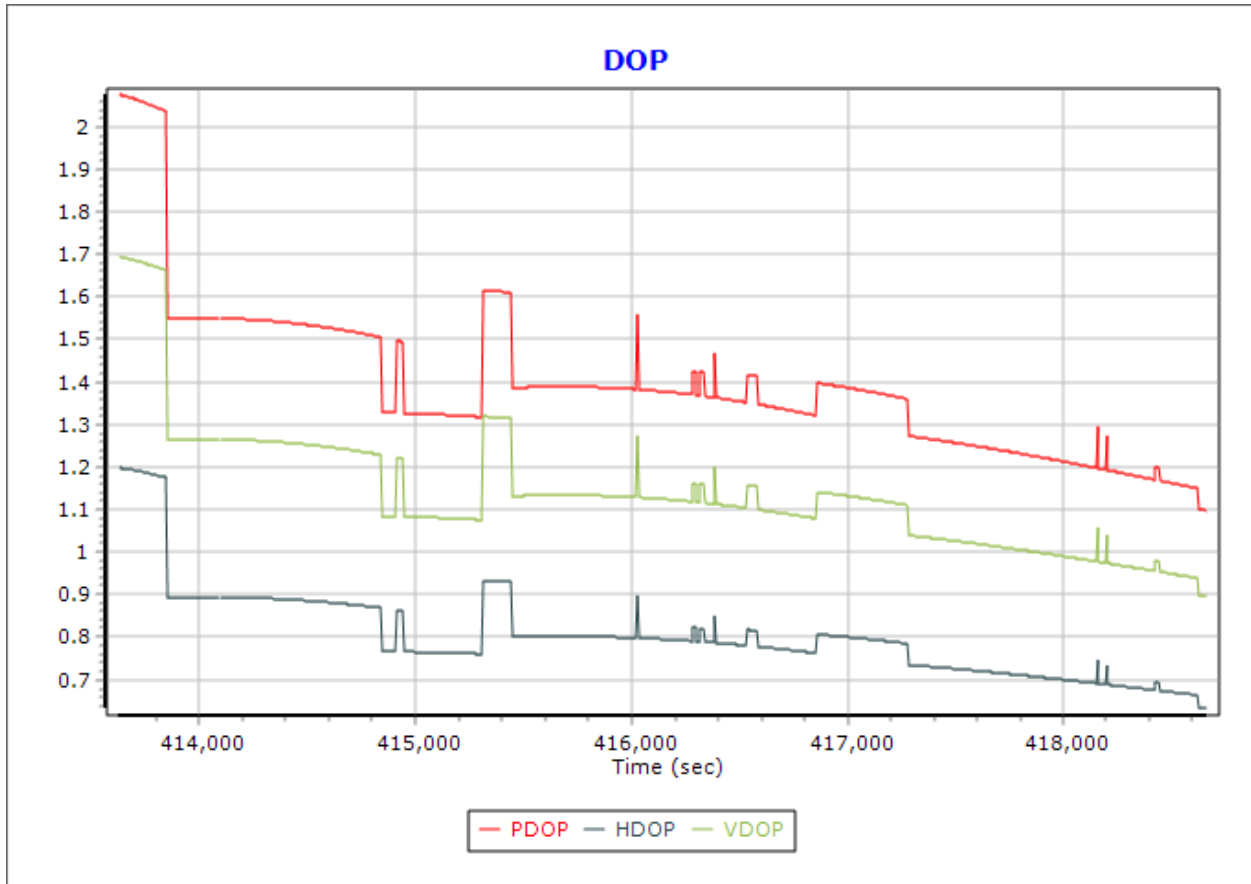


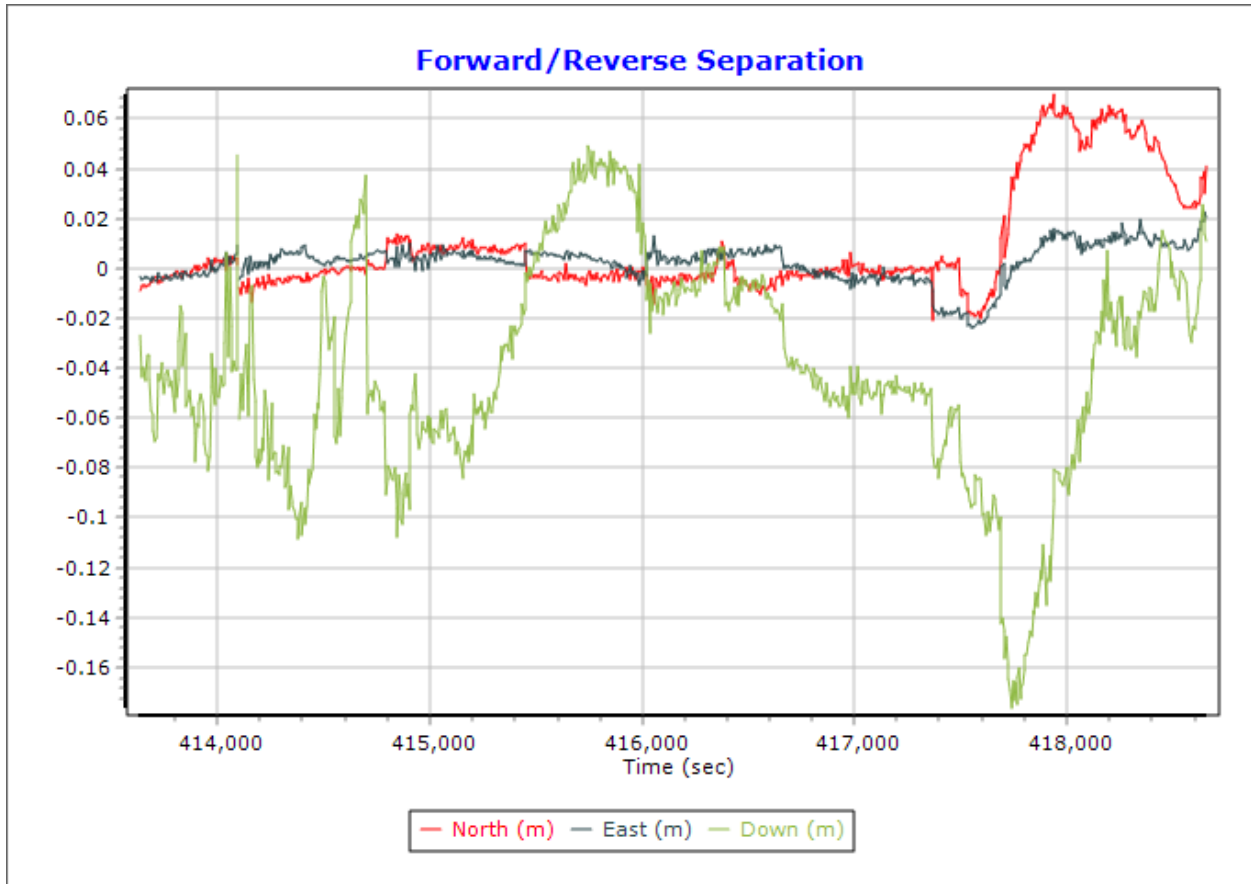


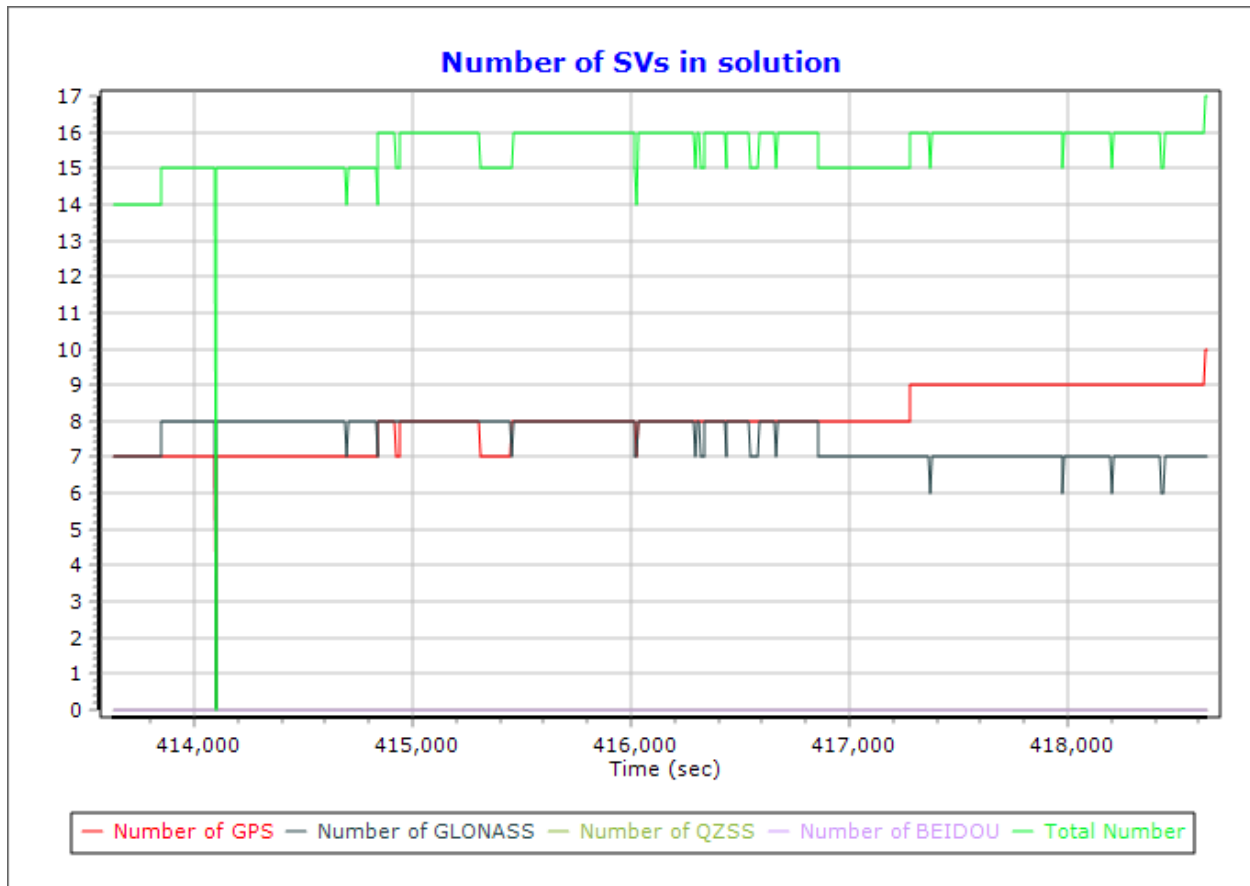












### Processing Summary Information

Program: POSpac MMS

Version: 7.2.5934.15637

Project: \\sa\data\216027\20170413\_WV\_C\05\_INS-GPS\_PROC\01\_POS\20170413\_WV\_C.pospac

Solution Type: IN-Fusion SmartBase

Fixed: 5015 (99.98%)

Float: 0 (0.00%)

No Solution: 1 (0.02%)

Number of Epochs:



Total in RAW file: 5044

No processed position: 28

Fwd/Rev Separation RMS Values (m):

East: 0.009

North: 0.024

Height: 0.062

Fwd/Rev Sep. RMS for 25%-75% weighting (m): 2521 occurrences

East: 0.005

North: 0.005

Height: 0.042

Position Standard Deviation Percentages:

0.00 - 0.10 m: 99.98 %

0.10 - 0.30 m: 0.02 %

0.30 - 1.00 m: 0.00 %

1.00 - 5.00 m: 0.00 %

5.00 m + over: 0.00 %

Percentages of epochs with DD\_DOP over 10.00: 0 %

DOP over Tol: 1.42 %

Baseline Distances (km):

Maximum: 51.03

Minimum: 5.47

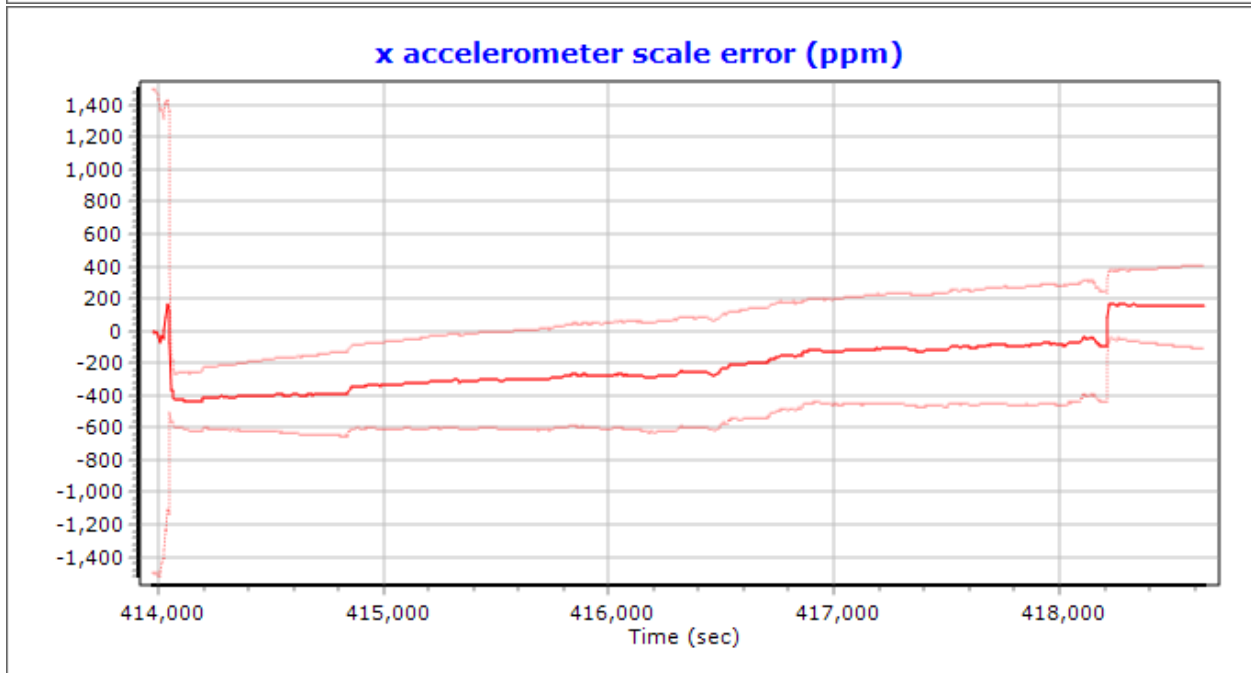
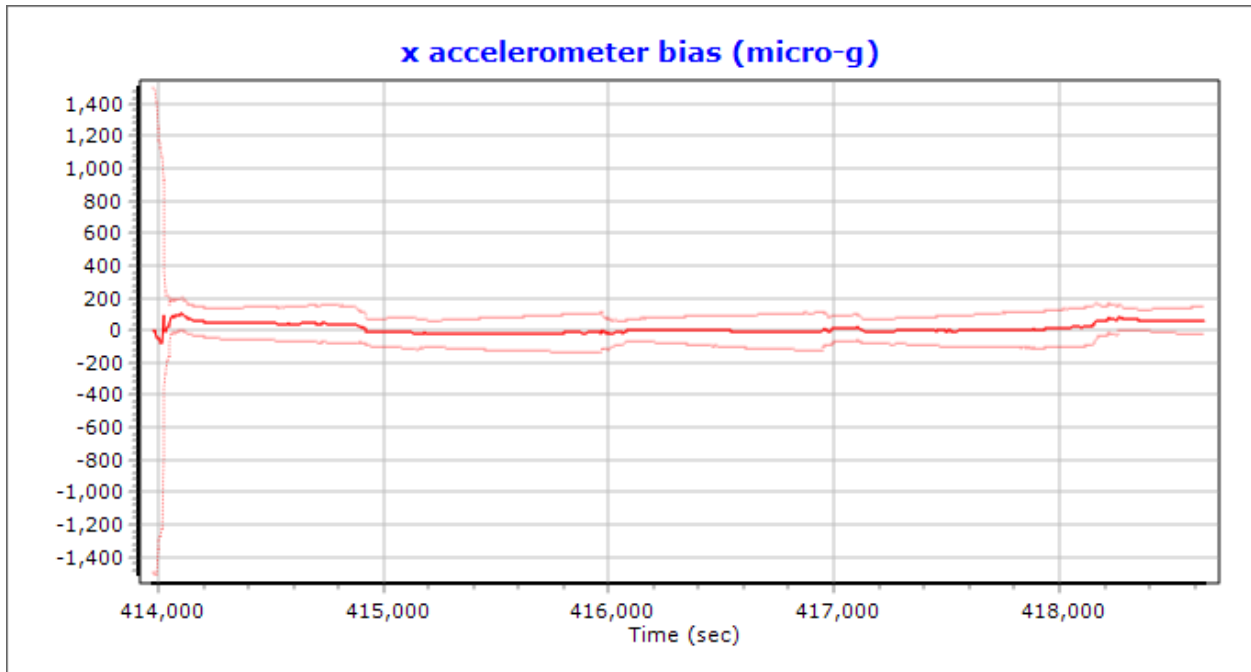
Average: 27.86

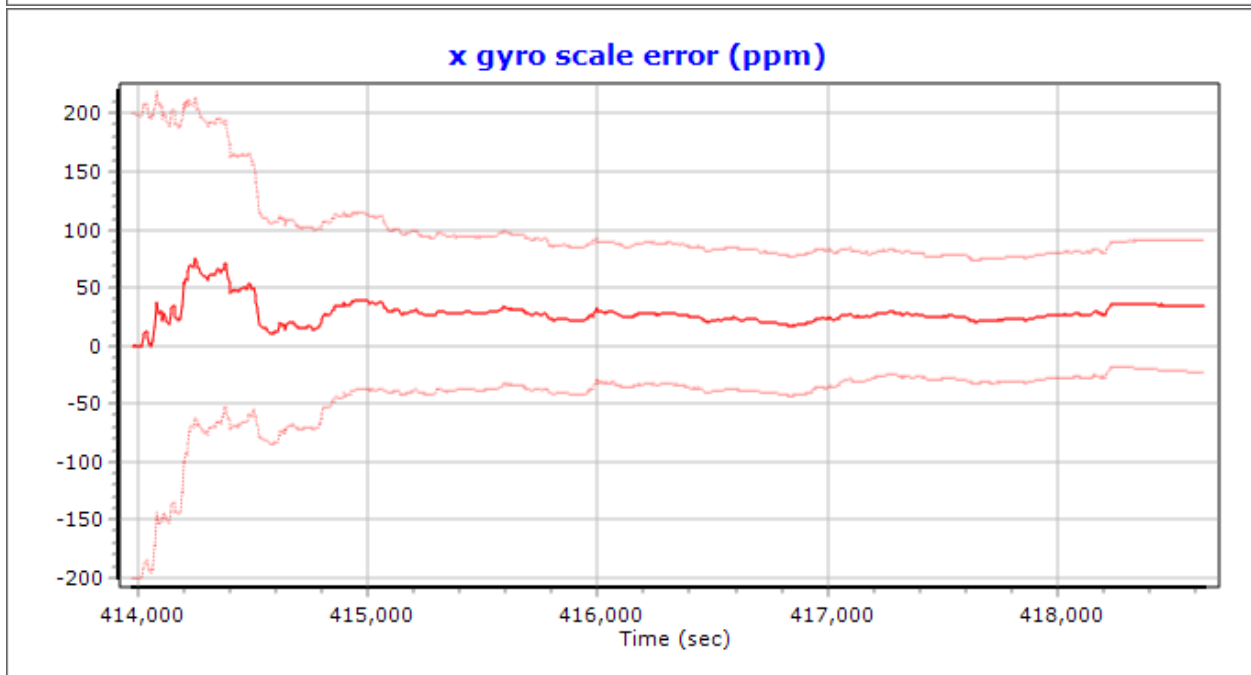
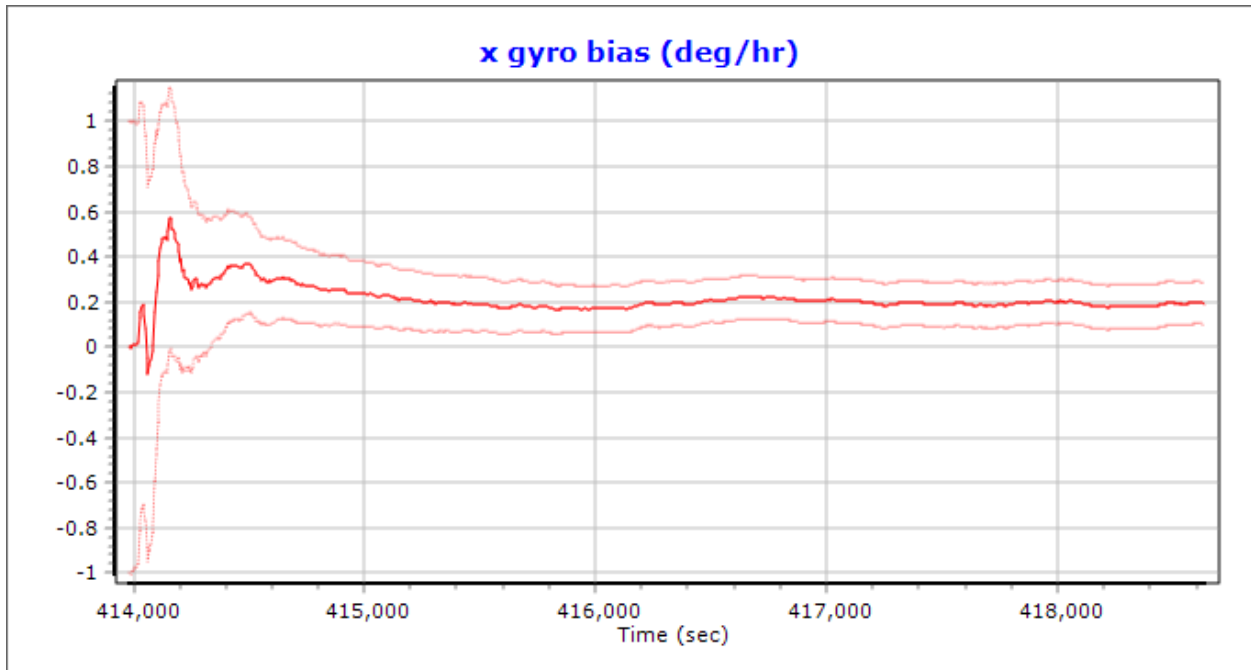
First Epoch: 37.37

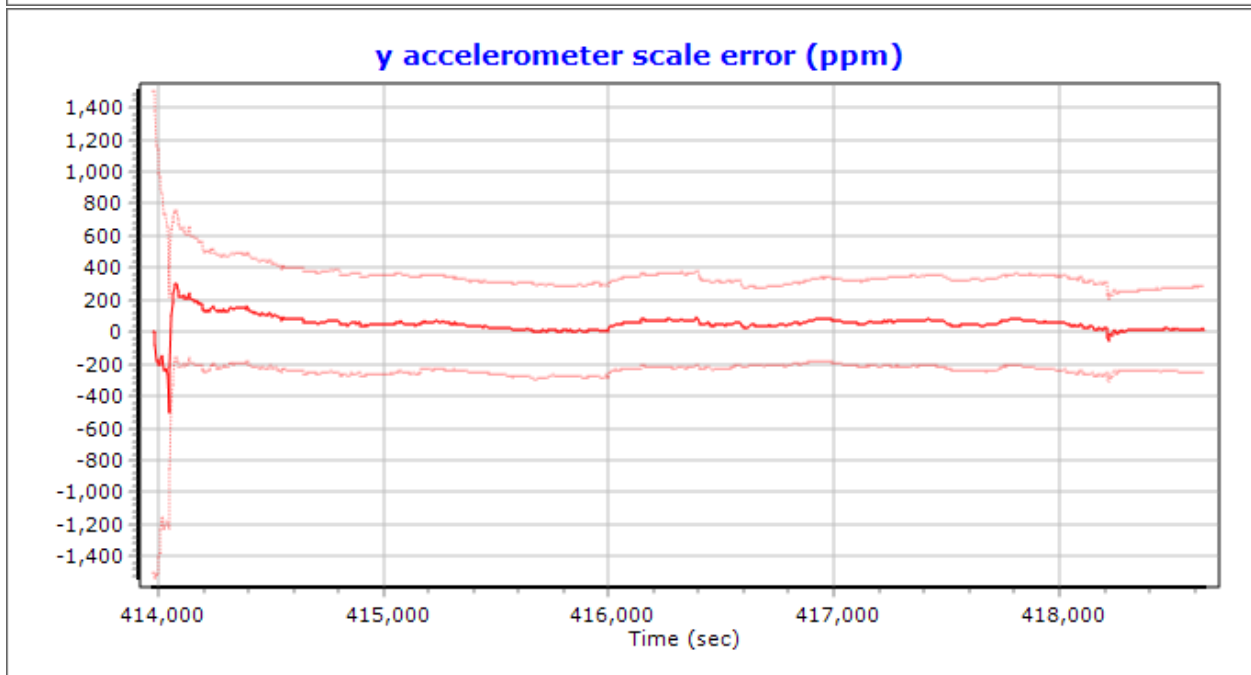
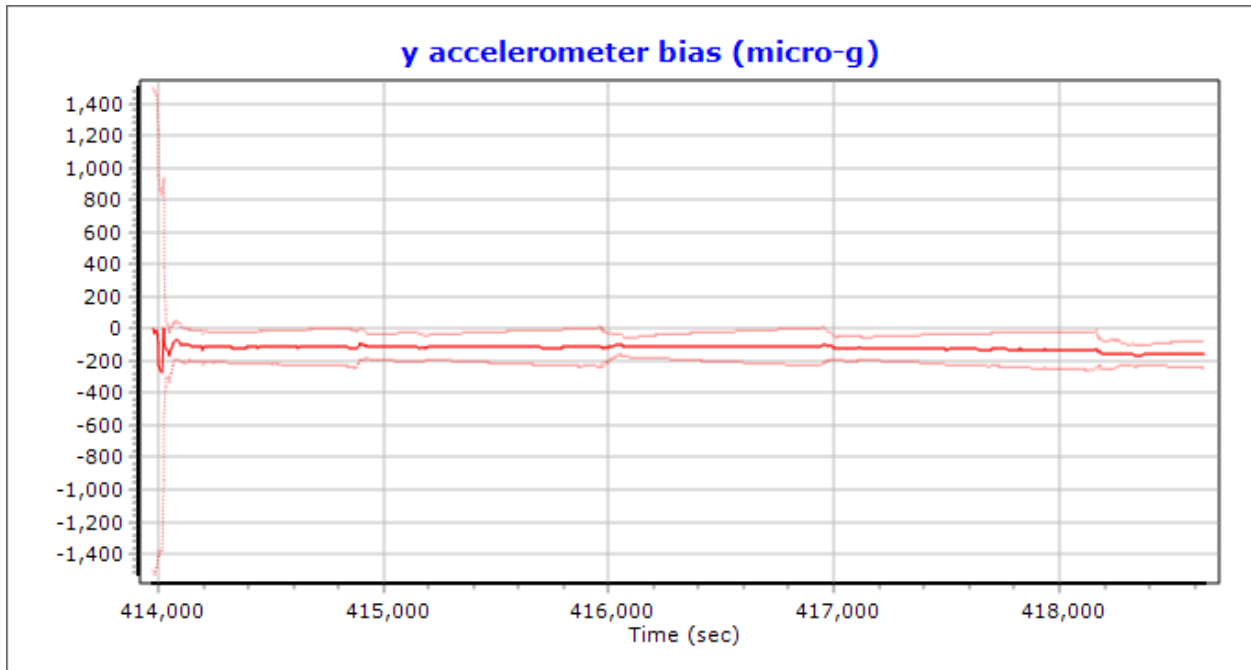
Last Epoch: 37.37

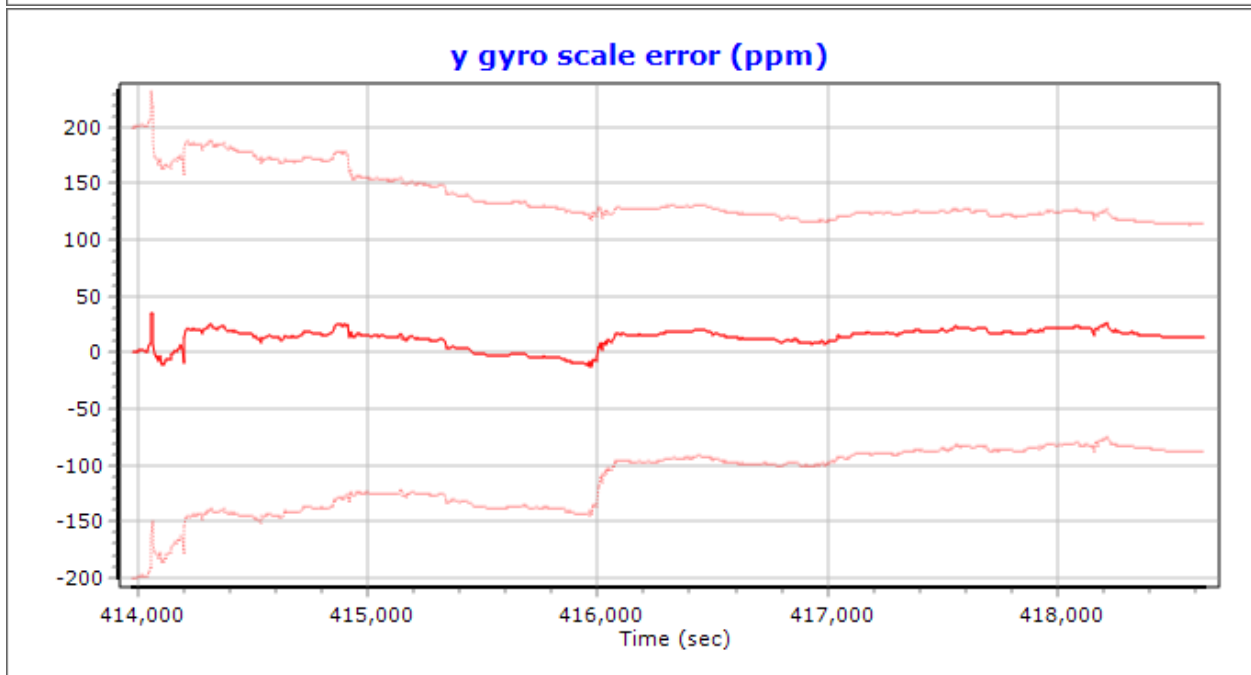
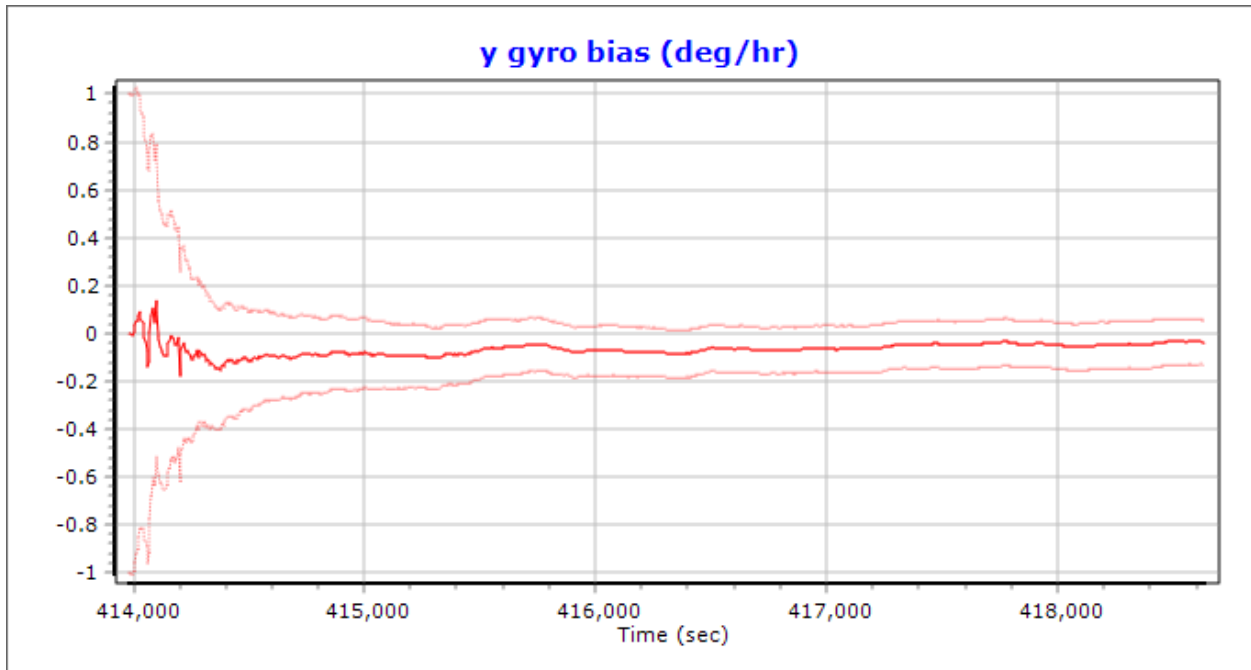
### CORS Base Stations

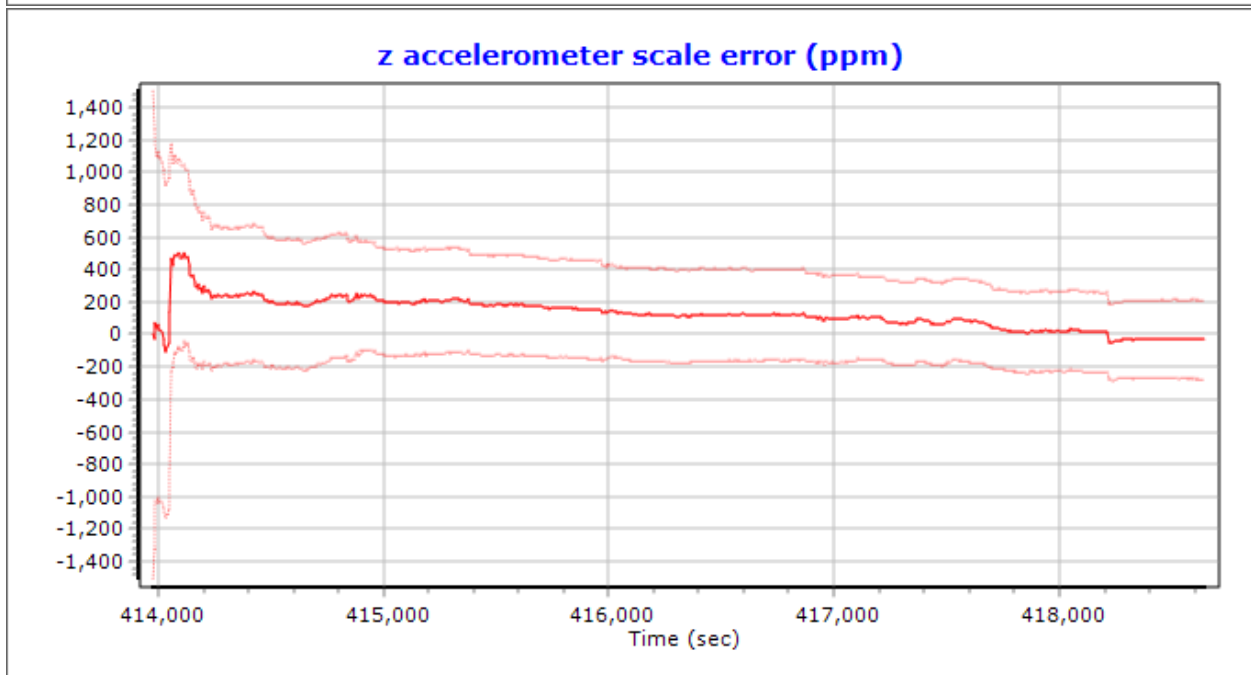
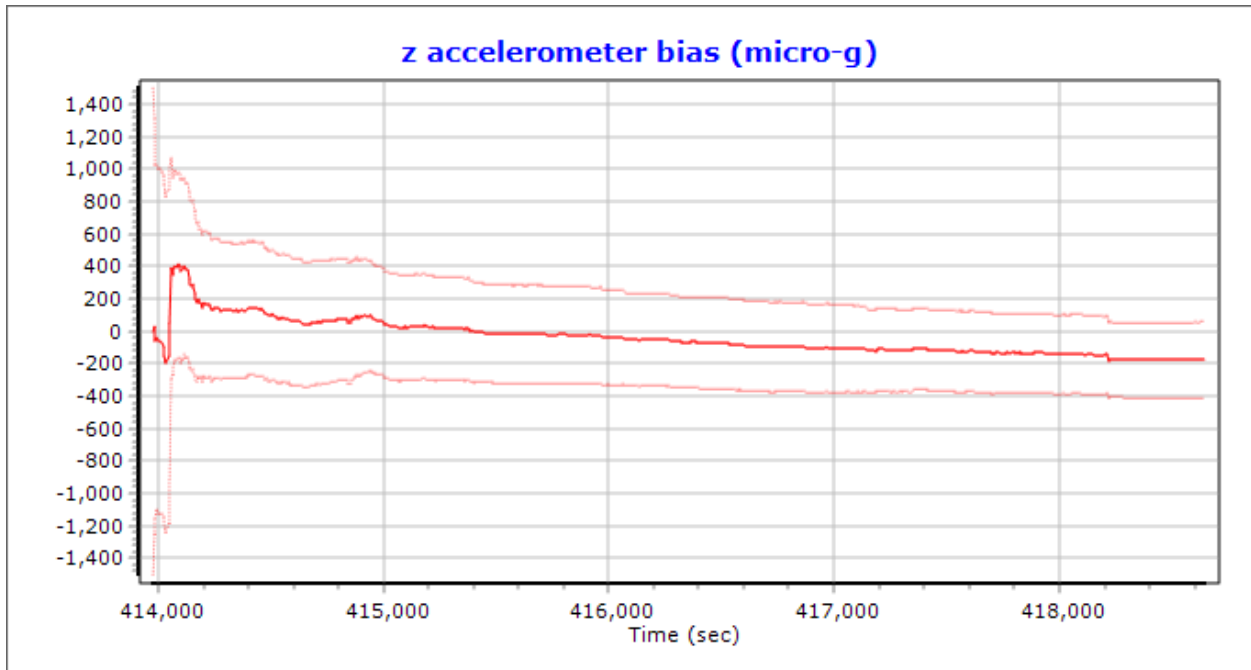
Station	Original (m)			Adjusted (m)		
	Latitude	Longitude	Altitude	Latitude	Longitude	Altitude
WVNR	N38°53'44.53460"	W79°51'30.29515"	581.507	N38°53'44.53517"	W79°51'30.29553"	581.502
WVBU	N39°20'16.85132"	W78°54'48.61089"	198.786	N39°20'16.85195"	W78°54'48.61181"	198.793
WVBR	N39°18'28.91344"	W80°16'38.64420"	268.986	N39°18'28.91401"	W80°16'38.64531"	269
UVFM	N37°52'43.49372"	W78°41'37.27121"	512.94	N37°52'43.49438"	W78°41'37.27214"	512.947
LS04	N37°21'47.16701"	W79°57'26.99360"	324.14	N37°21'47.16775"	W79°57'26.99425"	324.149
LOYY	N38°53'18.57664"	W78°29'56.96655"	220.904	N38°53'18.57752"	W78°29'56.96737"	220.911
LOYH	N37°18'09.77790"	W79°19'28.19902"	204.445	N37°18'09.77865"	W79°19'28.19965"	204.442
ALLG	N39°39'13.91863"	W78°43'50.52713"	174.48	N39°39'13.91942"	W78°43'50.52797"	174.499
WVMF	N39°04'32.37375"	W78°55'57.02186"	312.272	N39°04'32.37463"	W78°55'57.02271"	312.273
WVGB	N38°25'48.45401"	W79°49'01.31943"	811.181	N38°25'48.45450"	W79°49'01.32037"	811.179
WVCV	N39°00'55.10521"	W79°27'25.03373"	967.96	N39°00'55.10521"	W79°27'25.03373"	967.96
VA01	N38°01'13.99976"	W78°00'53.07971"	111.245	N38°01'14.00011"	W78°00'53.08415"	111.421
LOYJ	N38°28'20.92225"	W78°00'36.16912"	103.853	N38°28'20.92312"	W78°00'36.16964"	103.864
LOYI	N38°01'59.45428"	W78°30'42.43166"	154.965	N38°01'59.45506"	W78°30'42.43255"	154.962
LOYC	N39°07'12.57576"	W78°12'02.63191"	201.807	N39°07'12.57649"	W78°12'02.63293"	201.836
LOYA	N38°25'33.92921"	W78°53'21.79774"	363.919	N38°25'33.93000"	W78°53'21.79856"	363.971

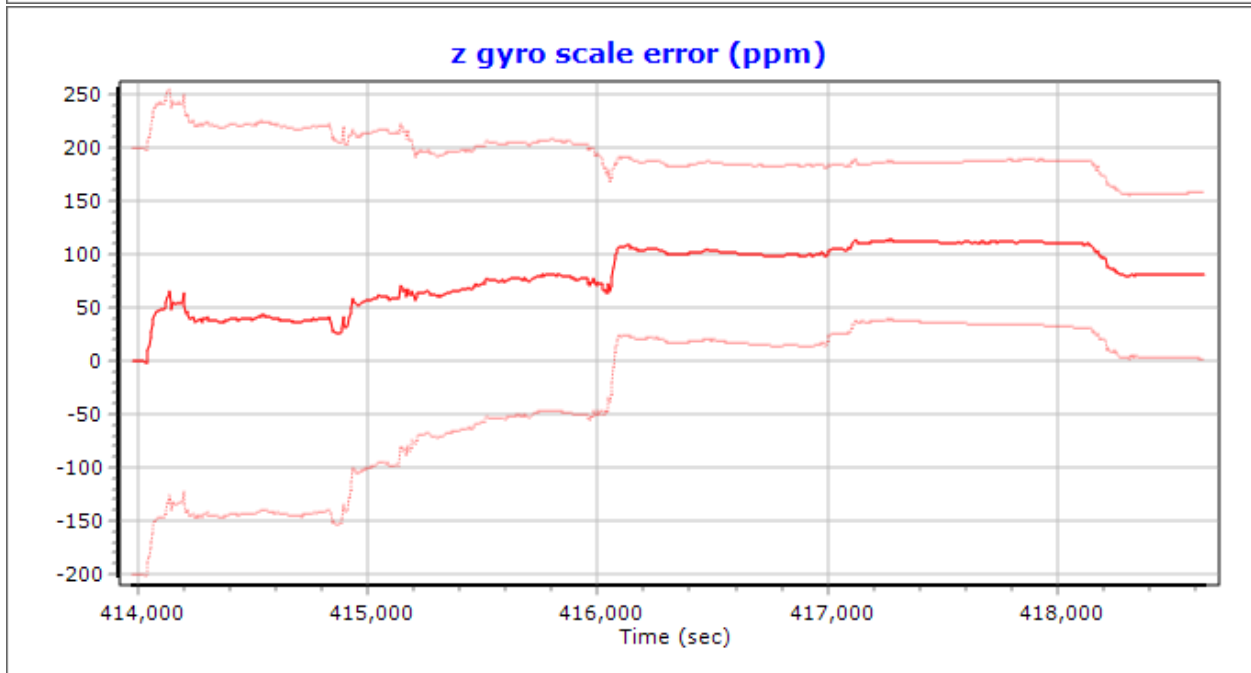
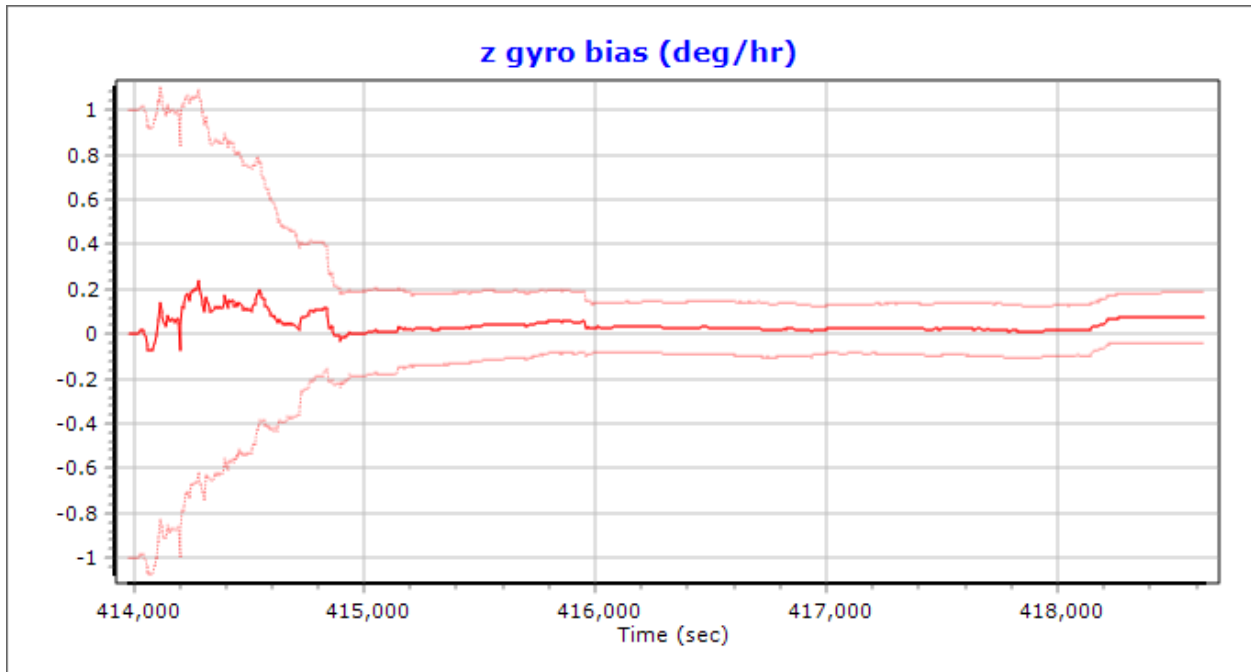




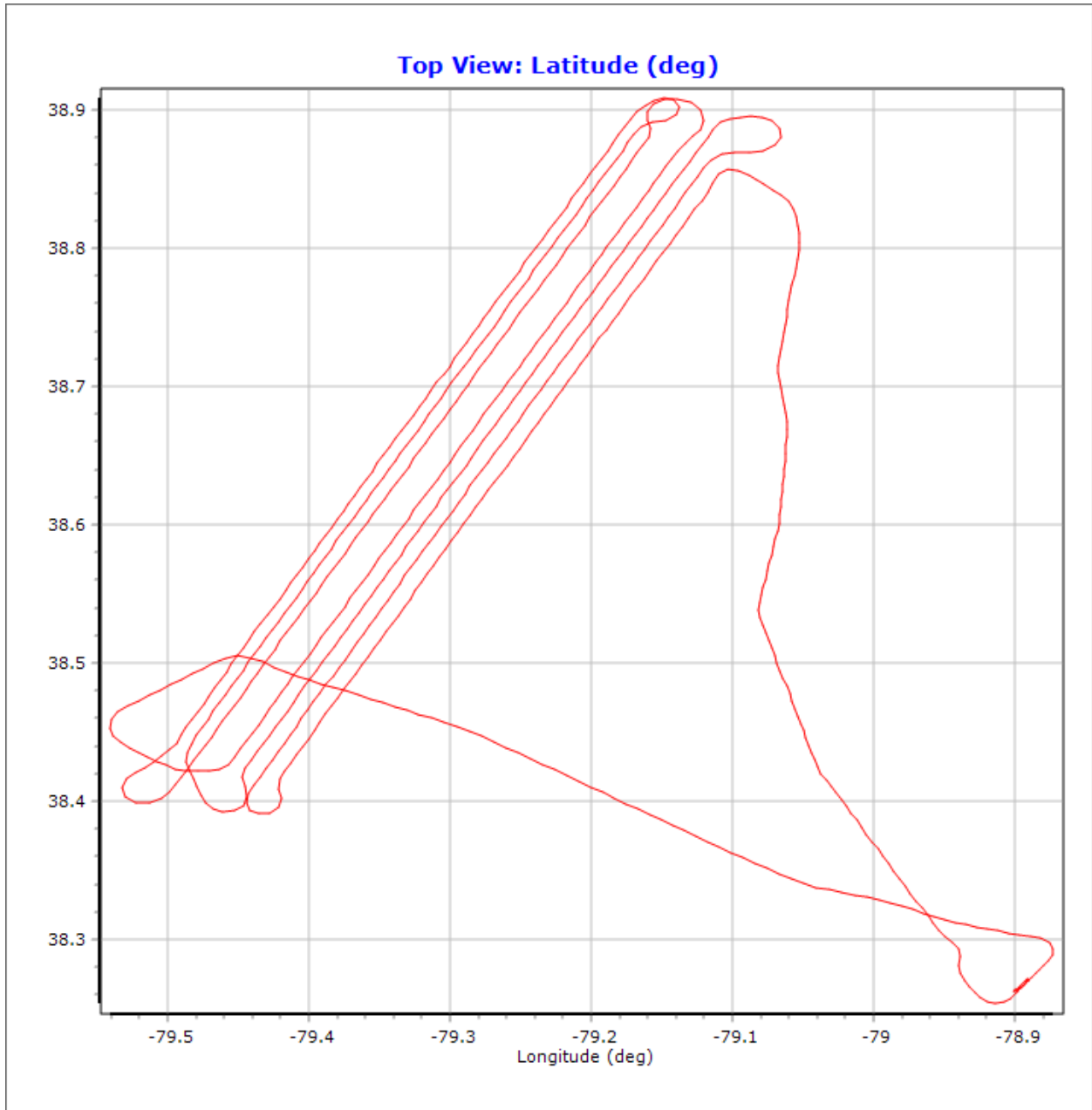


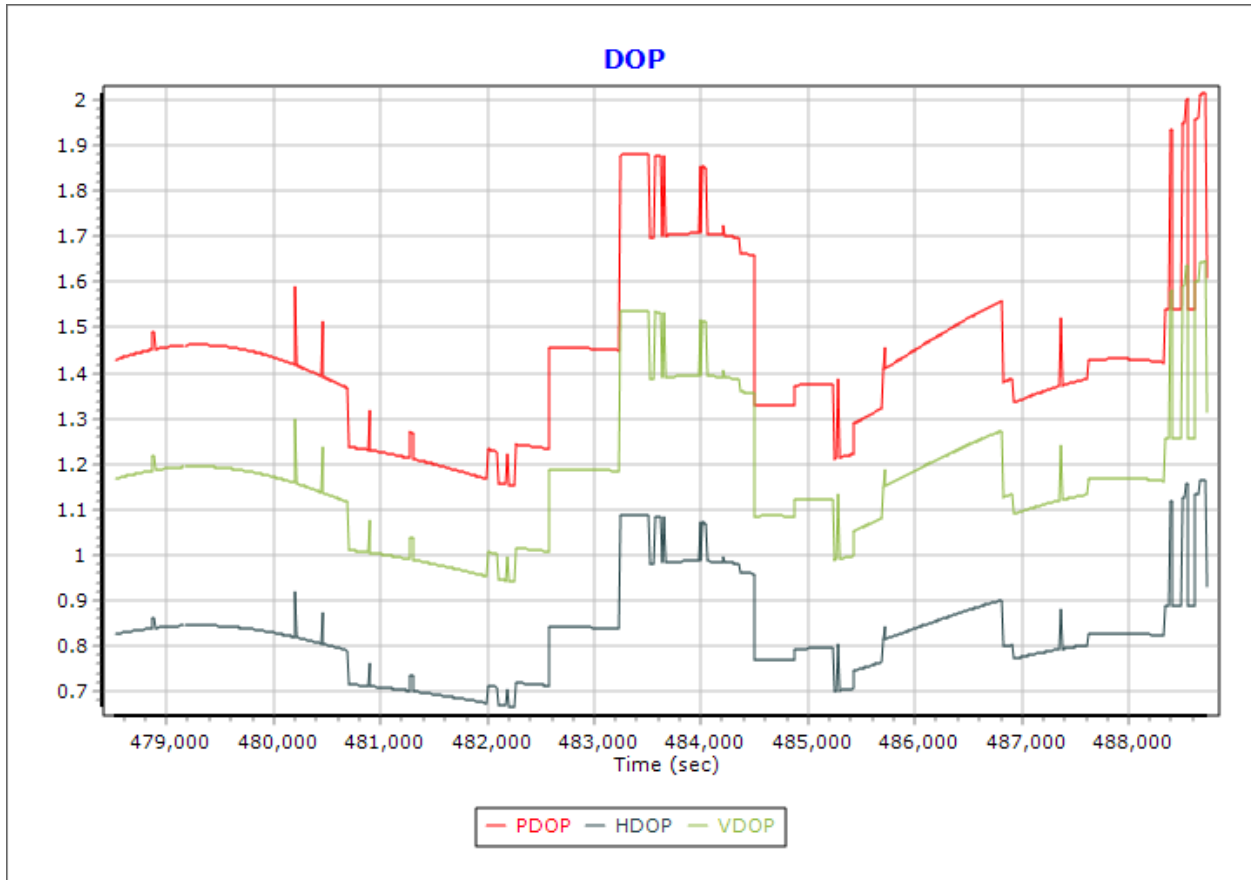


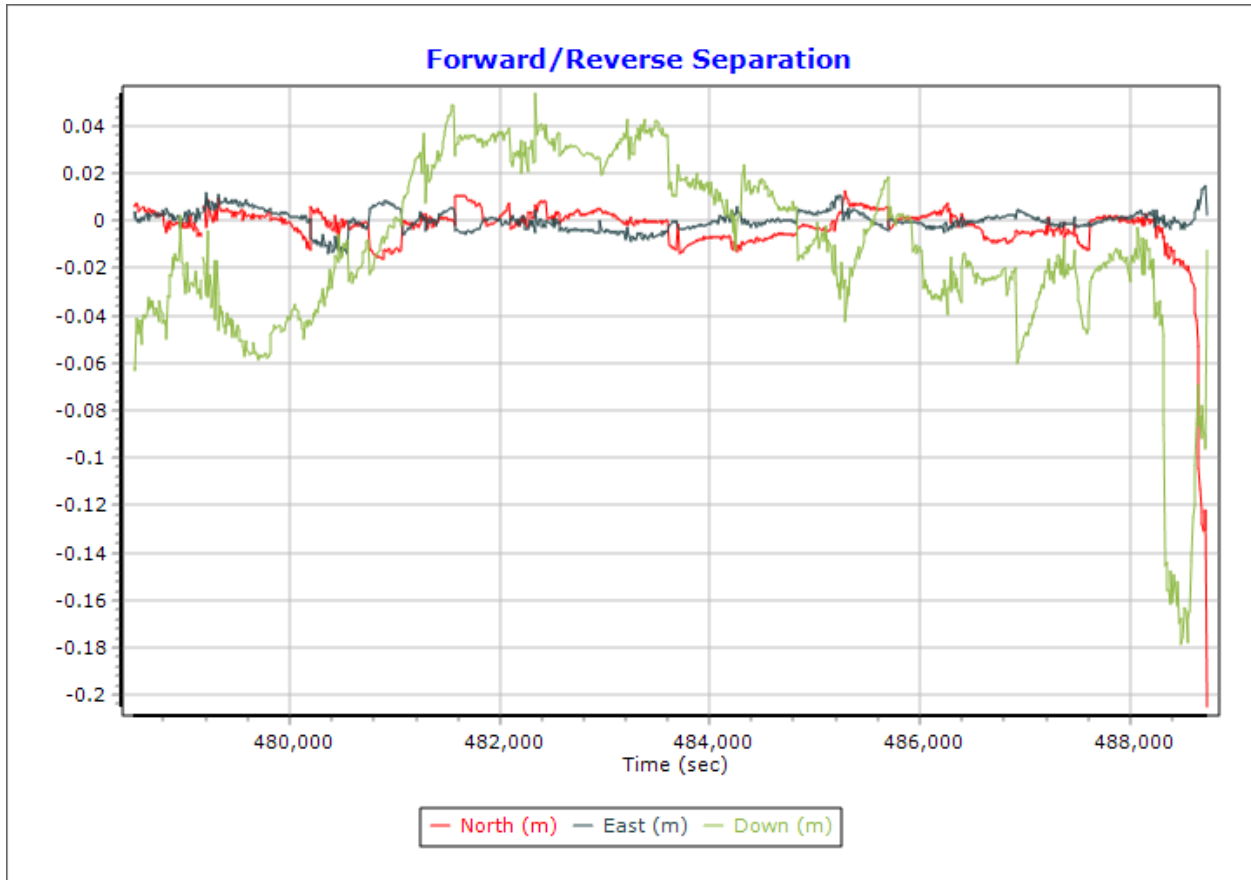


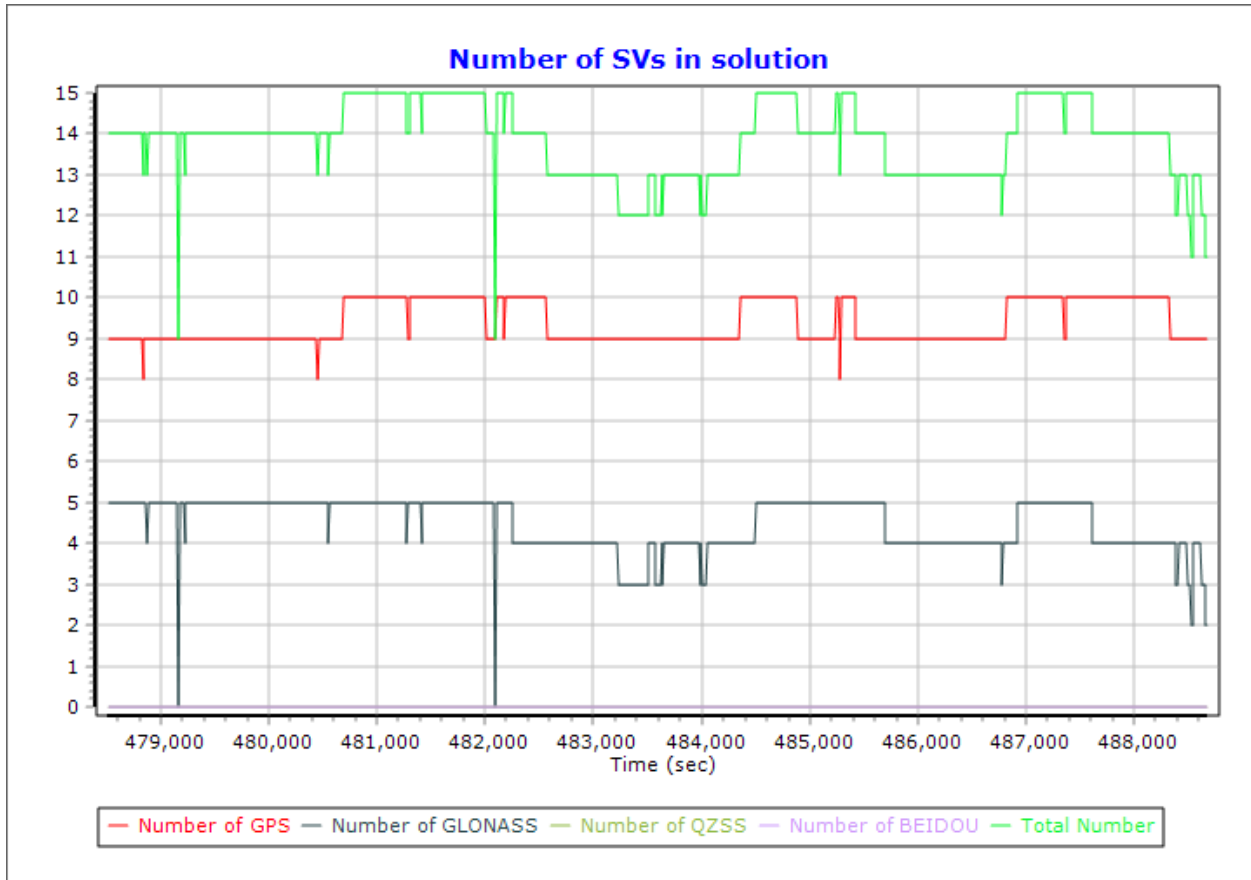












### Processing Summary Information

Program: POSpac MMS

Version: 7.2.5934.15637

Project: \\sa\data\216027\20170414\_WV\_A\05\_INS-GPS\_PROC\01\_POS\20170414\_WV\_A.pospac

Solution Type: IN-Fusion SmartBase

Fixed: 10181 (99.99%)

Float: 0 (0.00%)

No Solution: 1 (0.01%)

Number of Epochs:

Total in RAW file: 10234

No processed position: 53

Fwd/Rev Separation RMS Values (m):

East: 0.004

North: 0.014

Height: 0.040

Fwd/Rev Sep. RMS for 25%-75% weighting (m): 5116 occurrences

East: 0.004

North: 0.005

Height: 0.025

Position Standard Deviation Percentages:

0.00 - 0.10 m: 100.00 %

0.10 - 0.30 m: 0.00 %

0.30 - 1.00 m: 0.00 %

1.00 - 5.00 m: 0.00 %

5.00 m + over: 0.00 %

Percentages of epochs with DD\_DOP over 10.00: 0 %

DOP over Tol: 1.43 %

Baseline Distances (km):

Maximum: 44.35

Minimum: 7.18

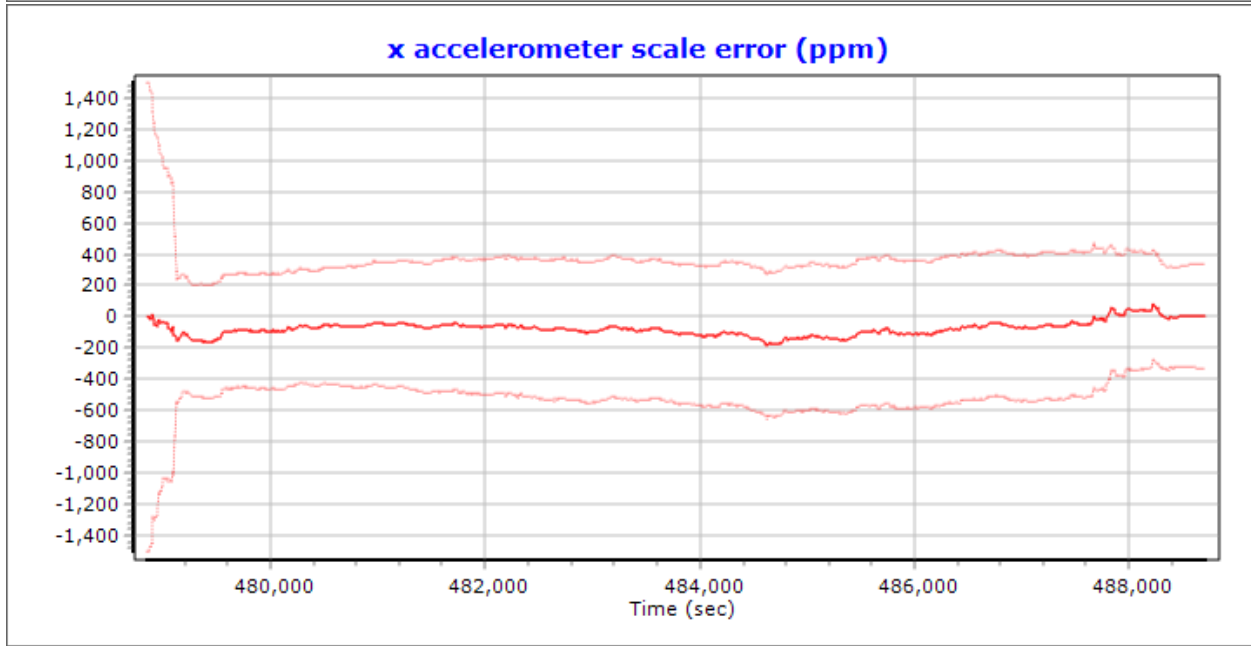
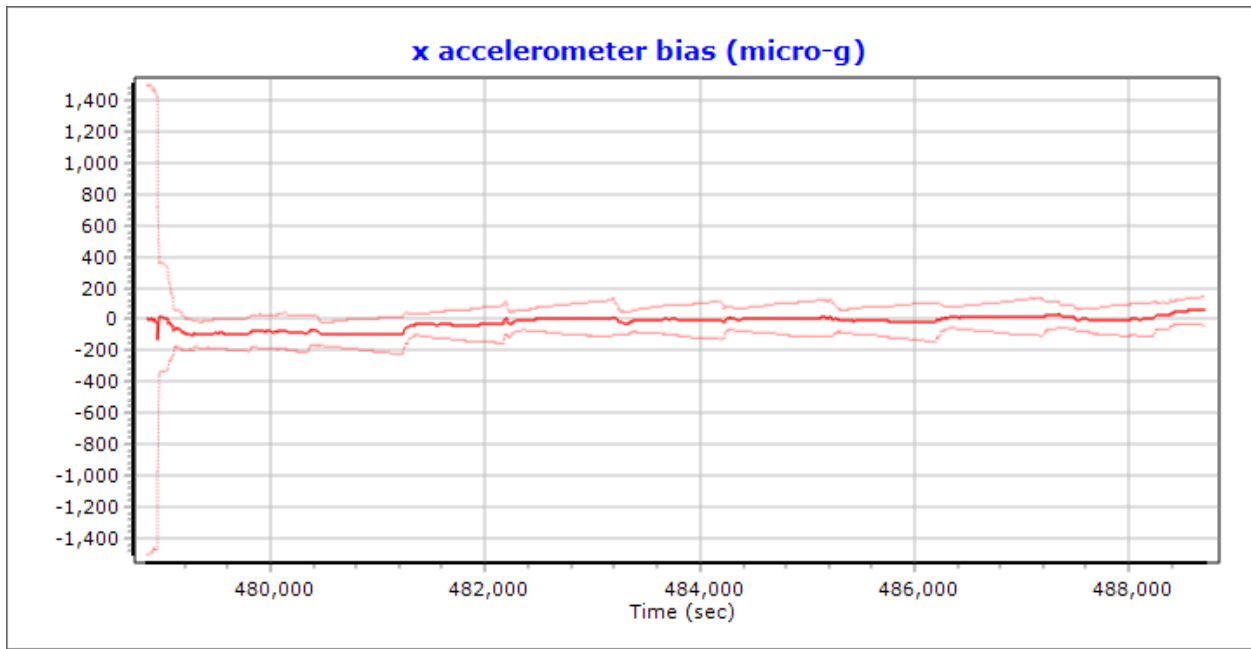
Average: 24.32

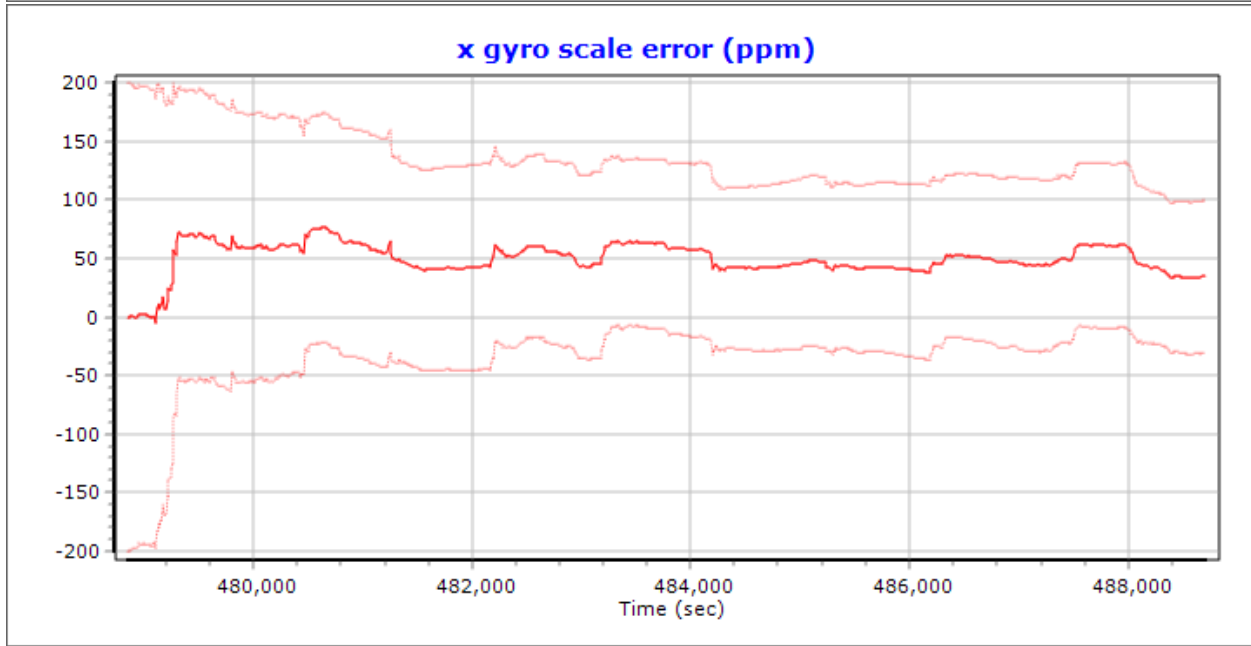
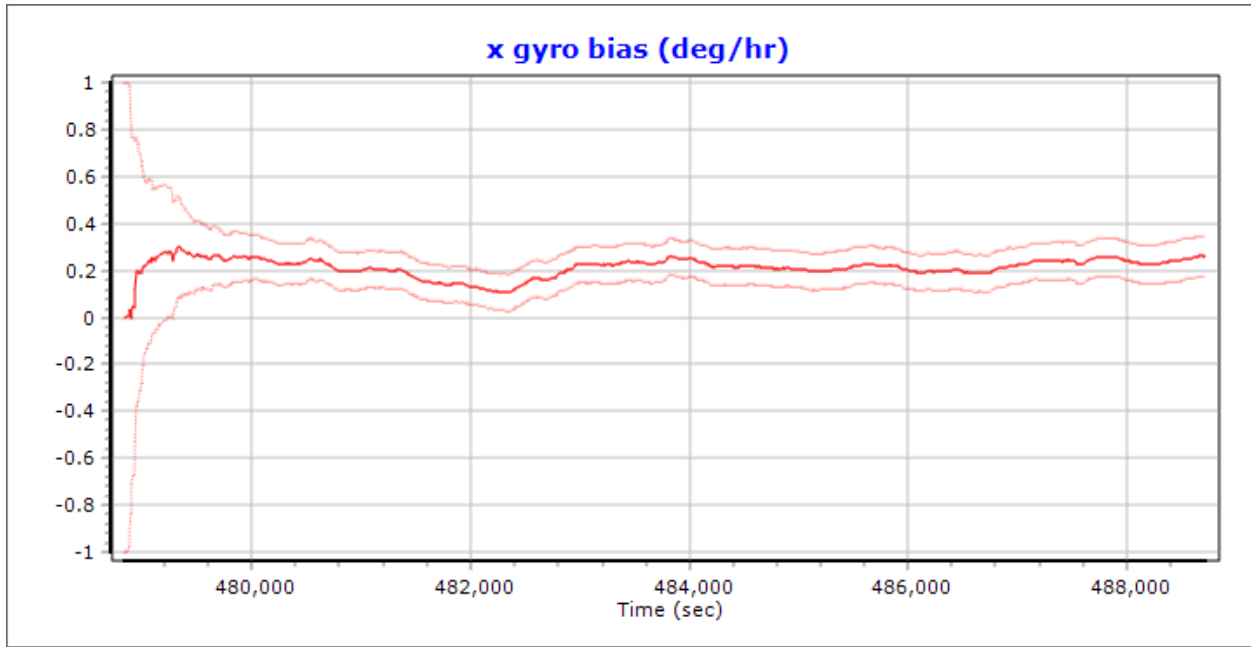
First Epoch: 44.01

Last Epoch: 44.02

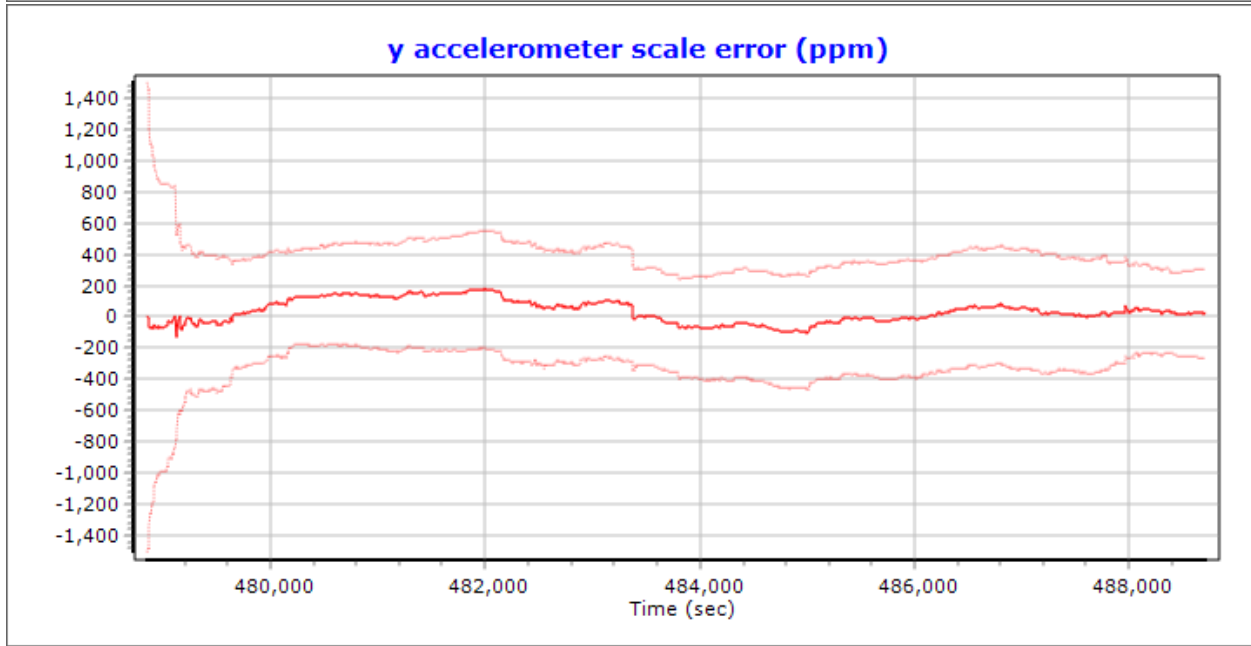
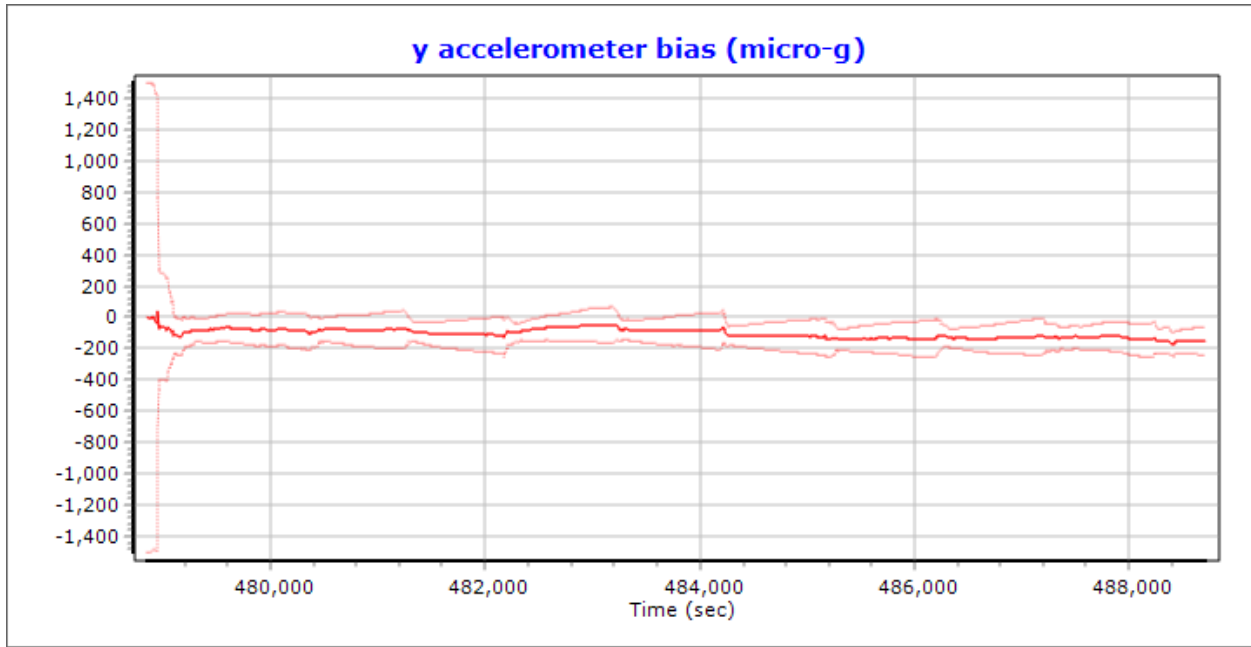
### CORS Base Stations

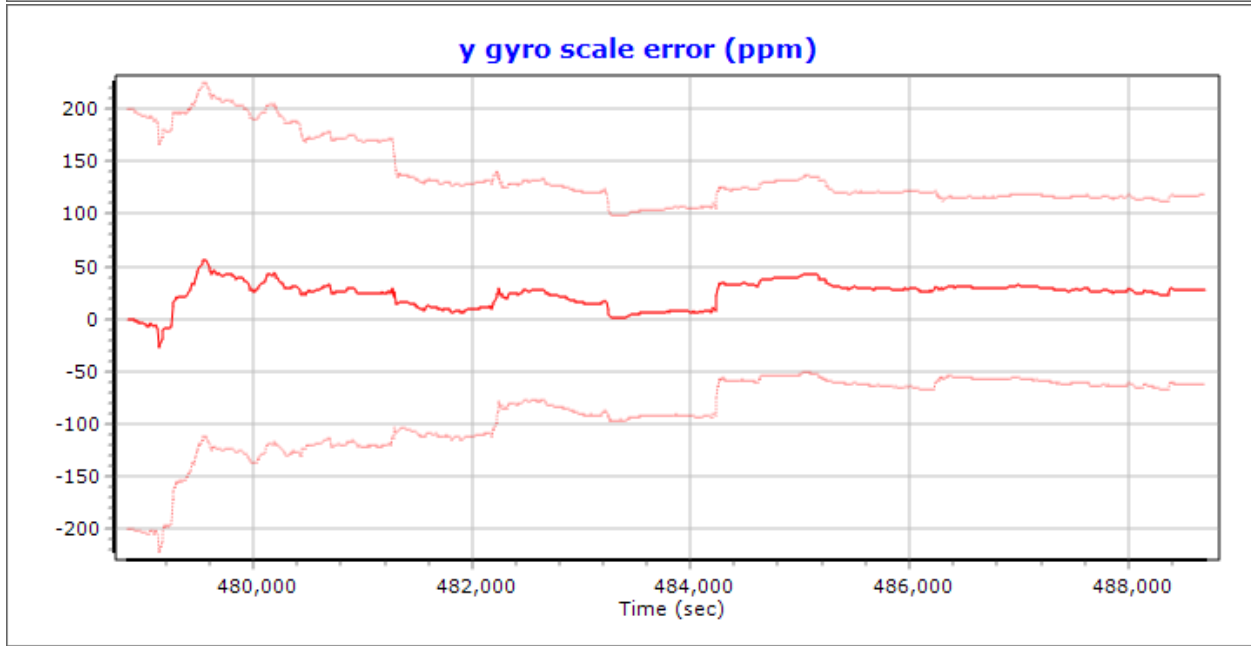
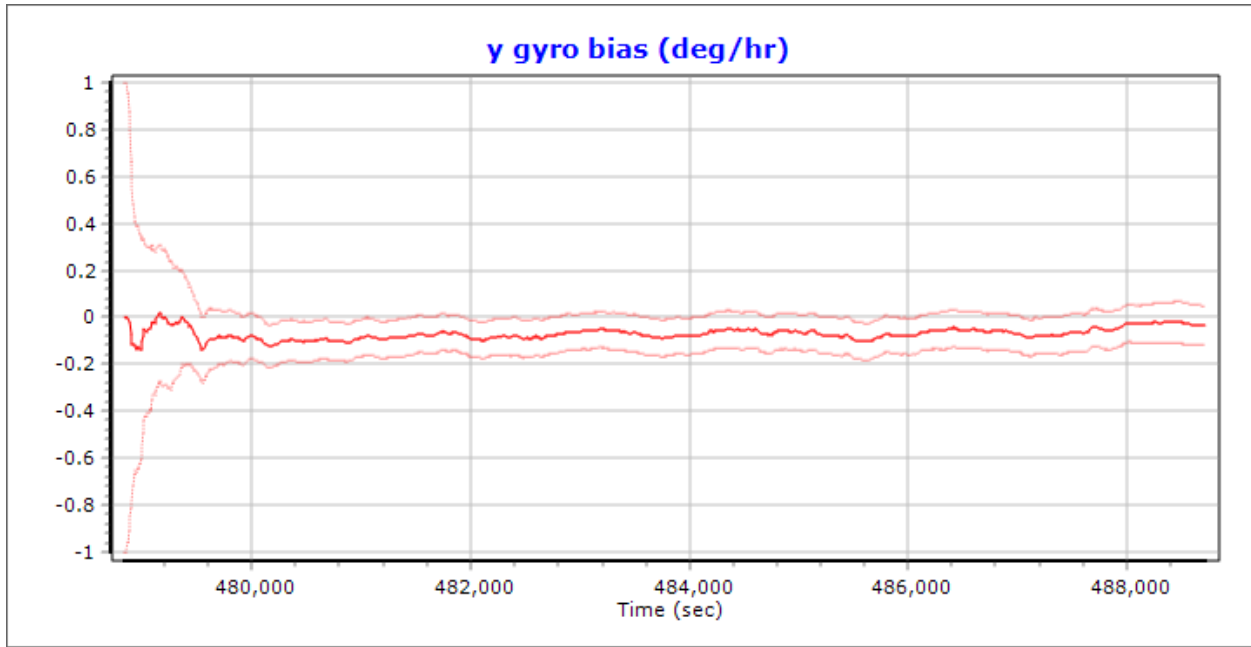
Station	Original (m)			Adjusted (m)		
	Latitude	Longitude	Altitude	Latitude	Longitude	Altitude
WVMF	N39°04'32.37367"	W78°55'57.02196"	312.273	N39°04'32.37453"	W78°55'57.02280"	312.274
WVGB	N38°25'48.45386"	W79°49'01.31960"	811.18	N38°25'48.45429"	W79°49'01.32056"	811.187
WVCV	N39°00'55.10511"	W79°27'25.03382"	967.959	N39°00'55.10511"	W79°27'25.03382"	967.959
LOYY	N38°53'18.57655"	W78°29'56.96668"	220.904	N38°53'18.57738"	W78°29'56.96762"	220.908
LOYA	N38°25'33.92913"	W78°53'21.79787"	363.918	N38°25'33.92986"	W78°53'21.79894"	363.968

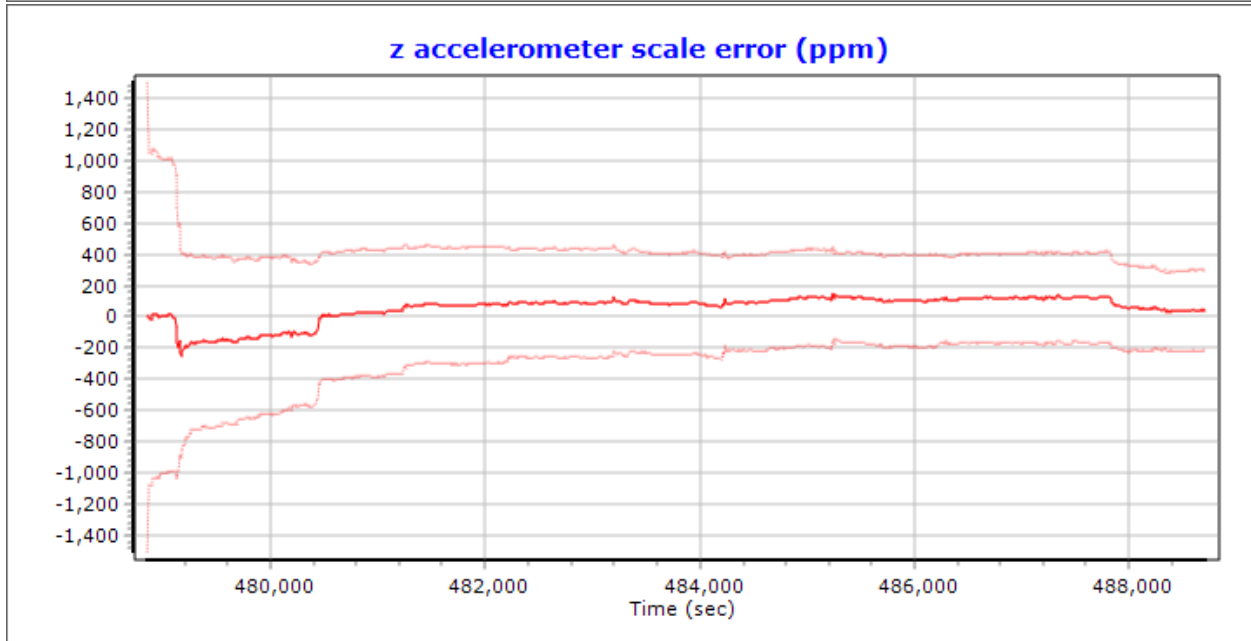
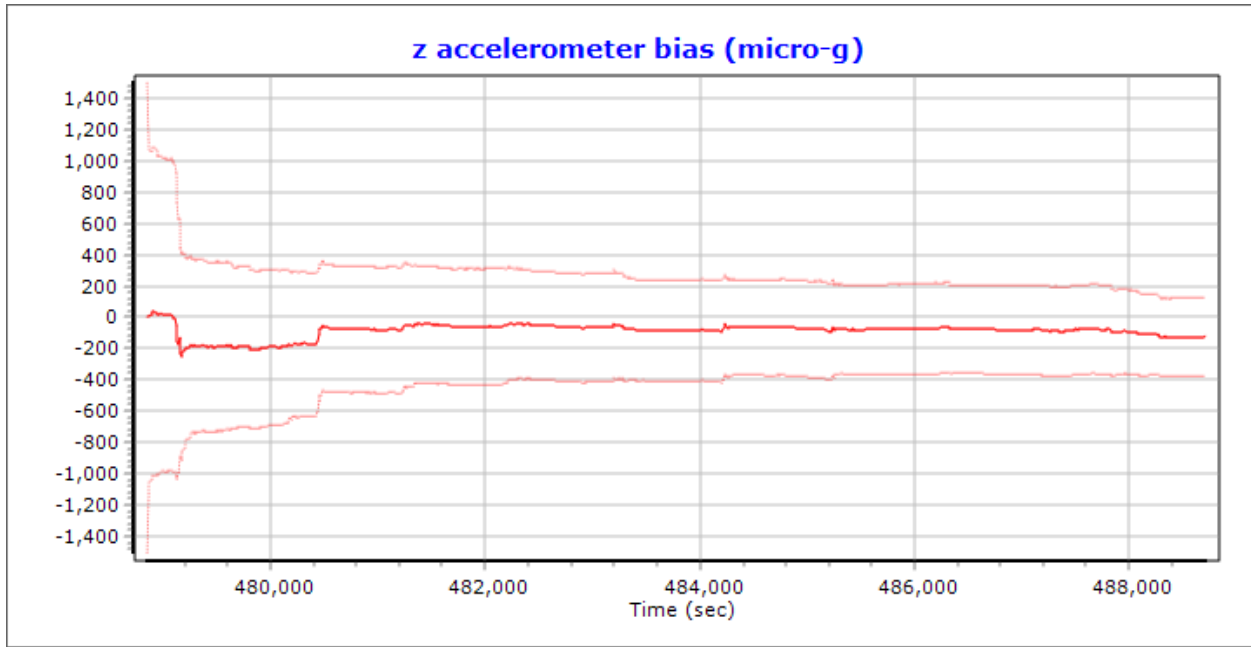


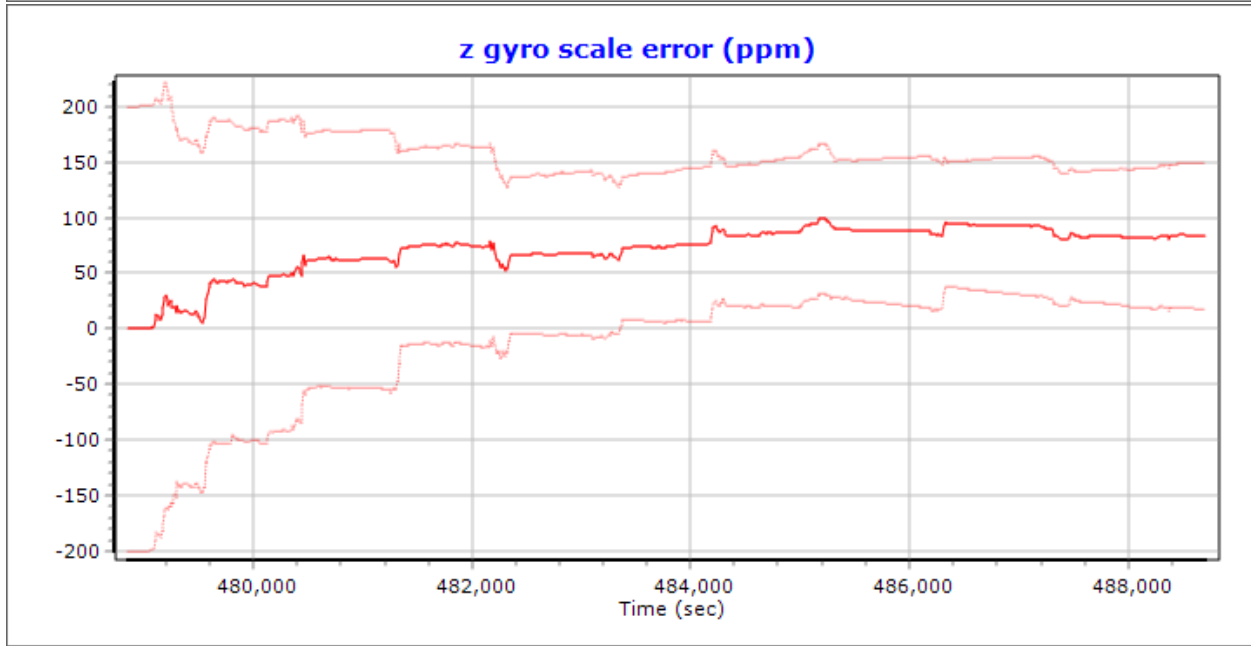
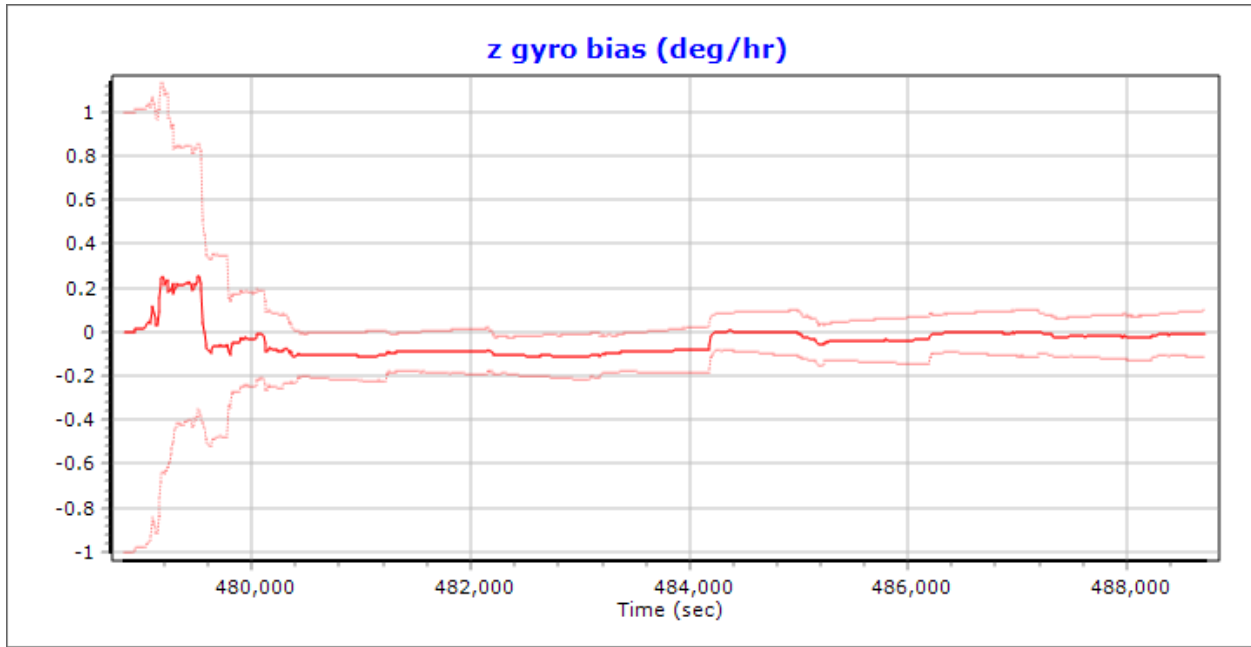


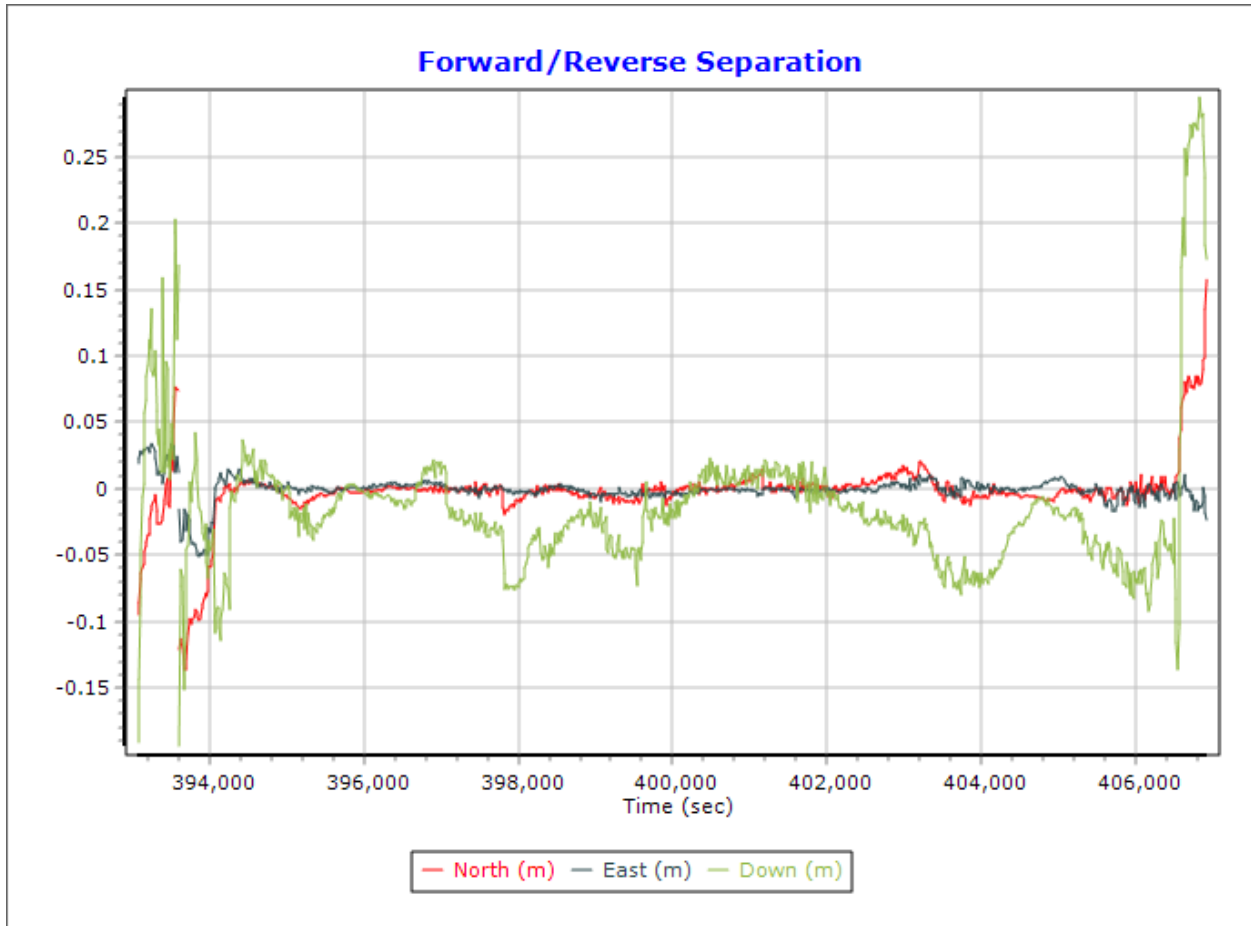


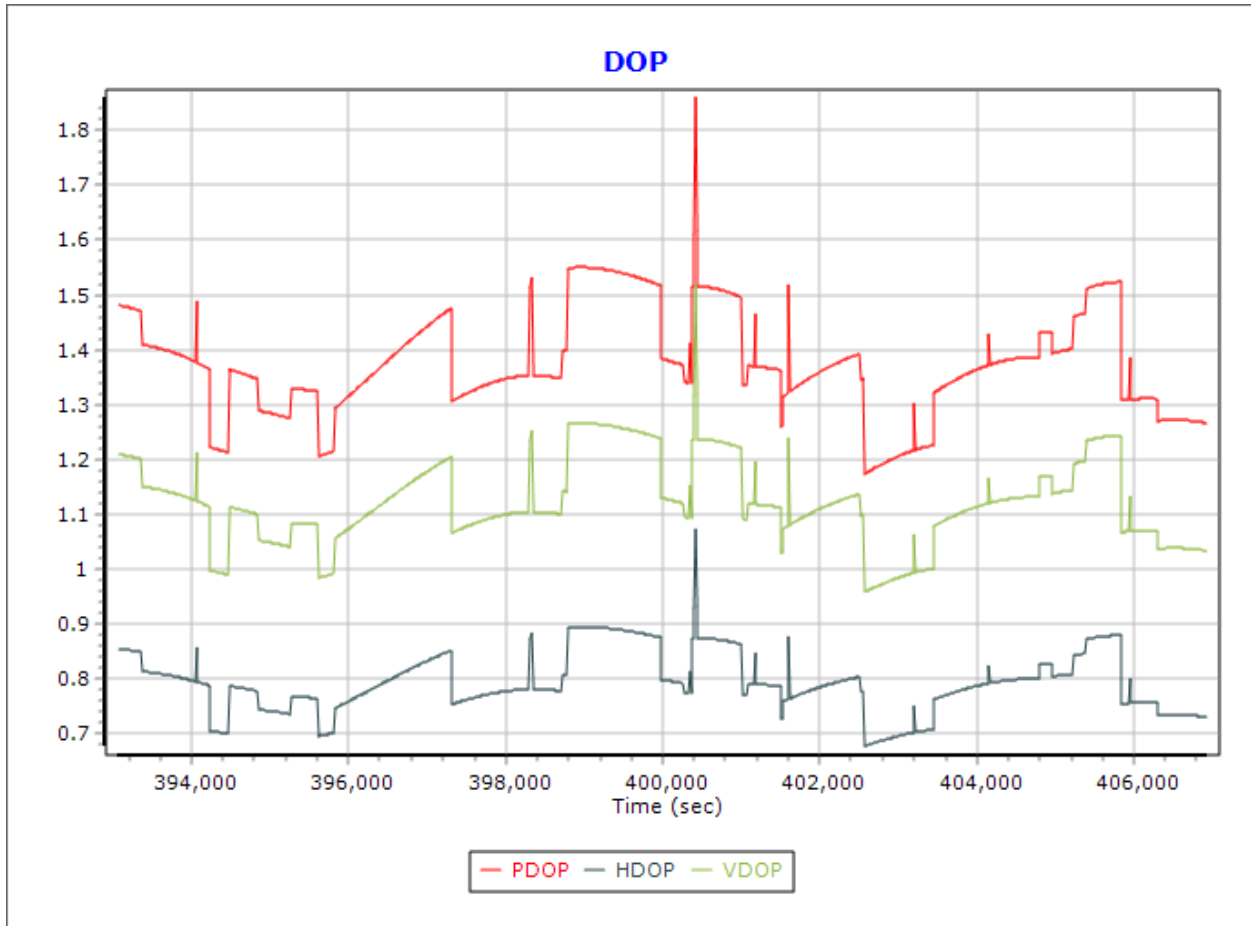


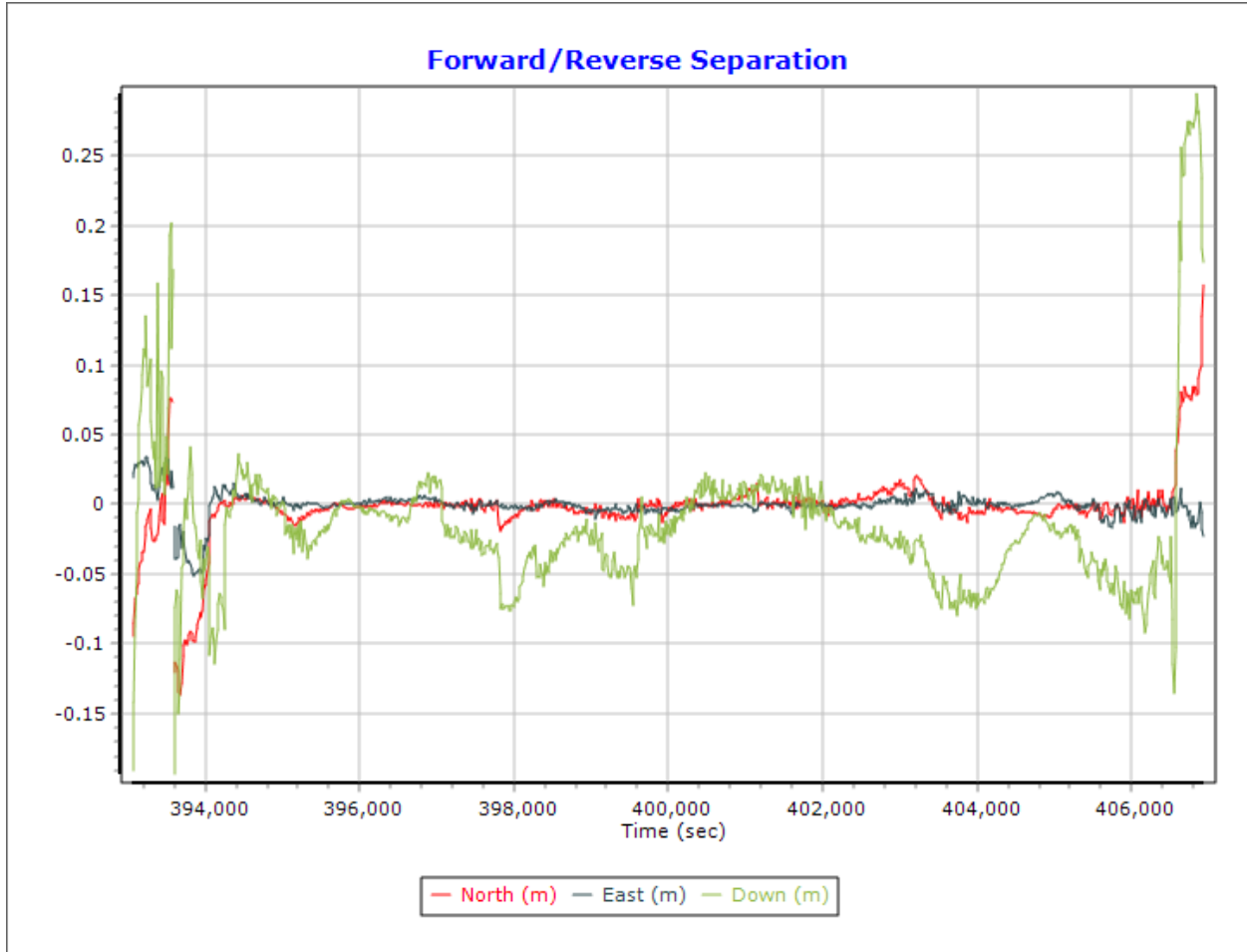


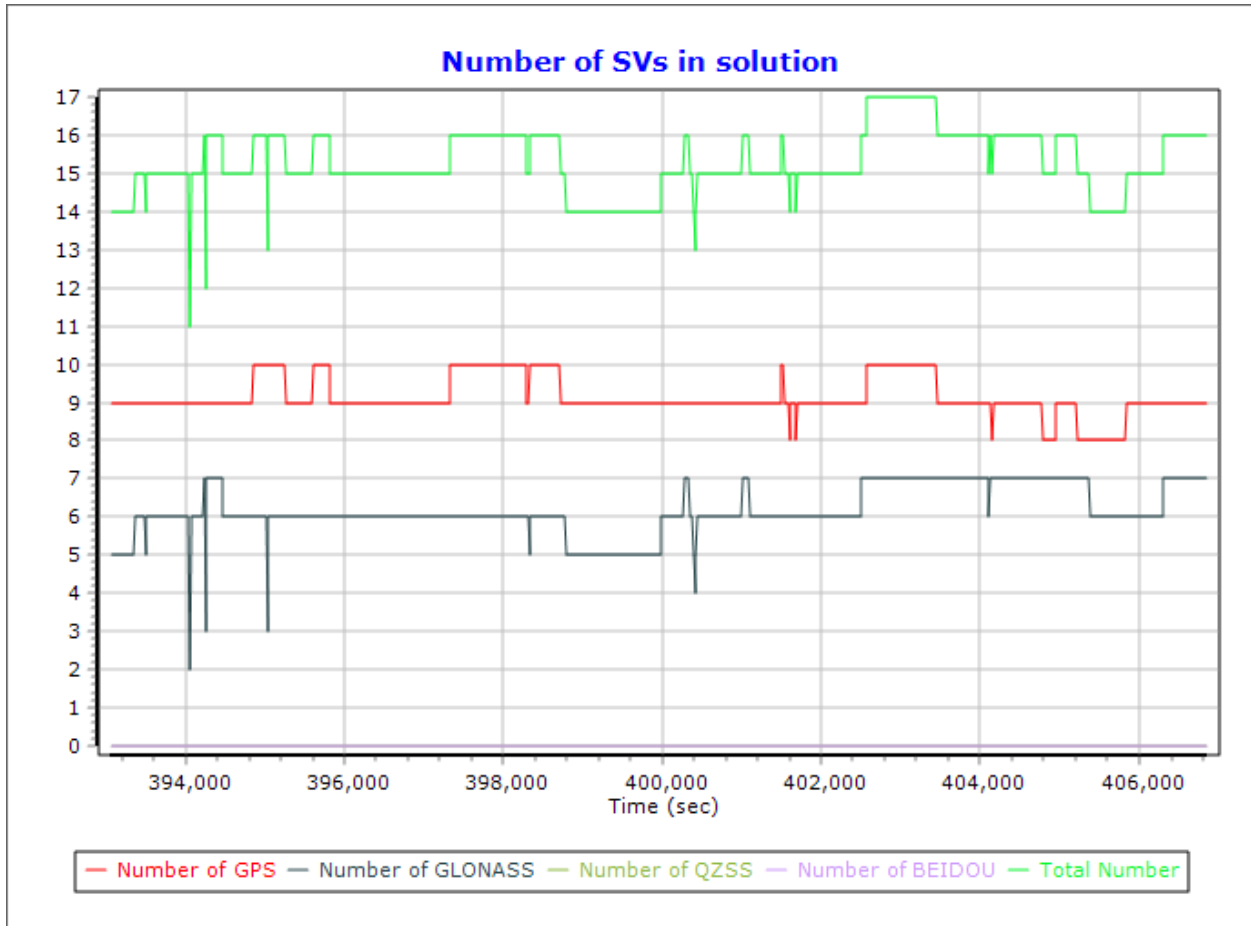












### Processing Summary Information

Program: POSpac MMS

Version: 7.2.5934.15637

Project: \\sa\data\216027\20170427\_WV\_A\05\_INS-GPS\_PROC\01\_POS\20170427\_WV\_A.pospac

Solution Type: IN-Fusion SmartBase

Fixed: 13822 (99.99%)

Float: 0 (0.00%)

No Solution: 1 (0.01%)



Number of Epochs:

Total in RAW file: 13903

No processed position: 81

Fwd/Rev Separation RMS Values (m):

East: 0.009

North: 0.025

Height: 0.057

Fwd/Rev Sep. RMS for 25%-75% weighting (m): 6950 occurrences

East: 0.009

North: 0.025

Height: 0.057

Position Standard Deviation Percentages:

0.00 - 0.10 m: 99.44 %

0.10 - 0.30 m: 0.56 %

0.30 - 1.00 m: 0.00 %

1.00 - 5.00 m: 0.00 %

5.00 m + over: 0.00 %

Percentages of epochs with DD\_DOP over 10.00: 0 %

DOP over Tol: 1.38 %

Baseline Distances (km):

Maximum: 128.65

Minimum: 6.26

Average: 59.57

First Epoch: 127.25

Last Epoch: 127.25

CORS Base Stations

Station	Original (m)			Adjusted (m)		
	Latitude	Longitude	Altitude	Latitude	Longitude	Altitude
LOYI	N38°01'59.45444"	W78°30'42.43219"	154.971	N38°01'59.45501"	W78°30'42.43238"	154.955
WVTA	N39°26'16.67346"	W79°30'52.97749"	724.783	N39°26'16.67417"	W79°30'52.97807"	724.813
WVSH	N39°59'49.12891"	W80°40'46.38749"	383.314	N39°59'49.12972"	W80°40'46.38852"	383.293
WVNR	N38°53'44.53447"	W79°51'30.29462"	581.5	N38°53'44.53521"	W79°51'30.29569"	581.491
WVMF	N39°04'32.37376"	W78°55'57.02188"	312.272	N39°04'32.37467"	W78°55'57.02256"	312.27
WVHA	N39°14'52.29163"	W81°02'37.87108"	288.888	N39°14'52.29193"	W81°02'37.87198"	288.893
WVGB	N38°25'48.45401"	W79°49'01.31945"	811.181	N38°25'48.45449"	W79°49'01.32046"	811.168
WVCV	N39°00'55.10521"	W79°27'25.03375"	967.96	N39°00'55.10521"	W79°27'25.03375"	967.96
WVBU	N39°20'16.85132"	W78°54'48.61091"	198.786	N39°20'16.85199"	W78°54'48.61149"	198.78
PAWG	N40°18'19.27231"	W79°30'22.40261"	334.926	N40°18'19.27295"	W79°30'22.40384"	334.928
PAGW	N39°53'56.14860"	W80°09'36.40341"	262.753	N39°53'56.14848"	W80°09'36.40323"	262.745
PAFU	N39°55'35.71867"	W79°41'50.53536"	326.746	N39°55'35.71929"	W79°41'50.53668"	326.754
PAFM	N39°57'44.94250"	W77°58'43.64094"	285.508	N39°57'44.94319"	W77°58'43.64188"	285.491
LOYY	N38°53'18.57664"	W78°29'56.96658"	220.904	N38°53'18.57747"	W78°29'56.96746"	220.915
LOYJ	N38°28'20.92225"	W78°00'36.16914"	103.853	N38°28'20.92308"	W78°00'36.16968"	103.859
LOYC	N39°07'12.57576"	W78°12'02.63193"	201.807	N39°07'12.57644"	W78°12'02.63285"	201.801
LOYA	N38°25'33.92921"	W78°53'21.79777"	363.919	N38°25'33.93001"	W78°53'21.79890"	363.93
ALLG	N39°39'13.91863"	W78°43'50.52715"	174.48	N39°39'13.91933"	W78°43'50.52788"	174.492

